LBT-A490

SERVICE MANUAL

AEP Model UK Model

· LBT-A490 is composed of following models. As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR THESE SYSTEM

1.	LBT-A490		
	AEP	UK	GERMANY
COMPACT DISC STEREO DECK RECEIVER	HCD-A490		
TURN TABLE	PS-LX56P		
SPEAKER SYSTEM	SS-A490	SS-A390	SS-A490

SPECIFICATIONS

General

Power requirements UK model:

240V AC, 50 Hz

Other model:

220 - 230V AC, 50/60 Hz

Power consumption UK model: 130W

Other model: 150W

Approx. 11.3Kg (24 lb 15 oz) (HCD-A490) Mass

Approx. 2.3Kg (5 lb 1 oz) (PS-LX56P) Dimensions Approx. 355 x 425 x 355 mm (w/h/d) (HCD-A490)

Approx. 355 x 95 x 345 mm (w/h/d) (PS-LX56P)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Description

	Tart IIV.	Description
	1-467-547-11	COMMANDER, STANDARD (RM-S421)
	1-501-374-11	ANTENNA, LOOP
	1-501-536-11	ANTENNA (Except Germany)
	2-181-754-21	COVER, BATTERY (For RM-S421)
	3-758-162-11	MANUAL, INSTRUCTION (ENGLISH) (UK)
	3-758-162-31	MANUAL, INSTRUCTION (GERMAN) (Germany)
	3-758-162-41	MANUAL, INSTRUCTION (ENGLISH, FRENCH,
		SPANISH, PORTUGUESE) (AEP)
	3-758-162-51	MANUAL, INSTRUCTION (DANISH, FINNISH) (AEP)
•	4-963-204-01	CUSHION
•	4-963-207-01	INDIVIDUAL CARTON (UK)
•	4-963-208-01	INDIVIDUAL CARTON (AEP, Germany)
	A-4674-087-A	TURN TABLE MAT ASSY (PS-LX56P)
	4-947-532-01	SNOW BOX (L) (PS-LX56P)
	4-947-533-01	SNOW BOX (L) (PS-LX56P) SNOW BOX (R) (PS-LX56P)
	4-347-333-01	SHOW DOX (K) (L2-LV30L)

COMPONENT HI-FI STEREO SYSTEM ON.



Sony Corporation Audio Group

English 94B0960-1 Printed in Japan © 1994.2

HCD-A490

SERVICE MANUAL

AEP Model **UK Model**

HCD-A490 is the tuner, deck, CD and amplifier section in LBT-A490.

Photo: AEP model

CD SECTION	Model Name Using Similer Mechanism		HCD-A390	
	CD Mechanism Type		CDM14-5BD13	
	Base Unit Type		BU-5BD13	
	Optical Pick-up Type		KSS-240A	
	Model Name Using Similer Mechanism		HCD-A390	
DECK SECTION	Tape Transport	DECK-A	TCM-190RA12AL	
	Mechanism Type	DECK-B	TCM-190RB53A	

SPECIFICATIONS

Compact disc deck receiver (HCD-A490)

Tuner Section

System

FM stereo

FM/AM superheterodyne tuner

FM tuner section

Tuning range

EE, CIS model: 65 to 74 MHz

87.5 to 108 MHz Except EE, CIS model:

87.5 to 108 MHz

Antenna

75 ohms unbalanced 10.7 MHz

Intermediate frequency

AM tuner section

Tuning range

G model: AM: 531 to 1,602 kHz

IT model: AM: 522 to 1,611 kHz AEP, UK, EE, CIS, model:

MW: 531 to 1,602 kHz

LW: 153 to 279 kHz

Antenna

AM loop antenna

External antenna terminal

Intermediate frequency 450 kHz

Amplifier Section

UK model:

DIN power output

50 W + 50 W (6 ohms, at 1 kHz)

Continuous RMS power output

60 W + 60 W (6 ohms, at 1 kHz, 5% THD)

Music power output 90 W + 90 W (6 ohms)

Except UK model:

DIN power output

40 W + 40 W (6 ohms, at 1 kHz)

Continuous RMS power output
45 W + 45 W (6 ohms, at 1 kHz,

5% THD)

Music power output

70 W + 70 W (6 ohms)

Input	Jack type	Sensitivity	Impedance	
PHONO IN	Phono	3 mV	47 kilohms	
VIDEO IN	Phono	300 mV	47 kilohms	

Output	Jack type	Impedance	
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms	
HEADPHONES	Stereophone	Accepts headphones of	

Frequency response

15 Hz to 50 kHz₋₃ dB

- Continued on next page -





Cassette deck Section

Recording system Frequency response 4-track 2-channel stereo DOLBY NR OFF

With Sony Type II cassette 40 Hz to 14 kHz (±3 dB) With Sony Type I cassette 40 Hz to 13 kHz (±3 dB)

Wow and flutter

W. PEAK ±0.2% (DIN)

CD player Section

Laser Wavelength Frequency response Signal-to-noise ratio Dynamic range Harmonic distortion Semiconductor laser 780 - 790 nm2 Hz to 20 kHz ±0.5 dB More than 93 dB More than 90 dB Less than 0.008% (1 kHz) More than 90 dB (1 kHz)

General

Power requirements

Channel separation

Except UK model: 220 - 230 V AC, 50/60 Hz UK model: 240 V AC, 50Hz

Power consumption Dimensions

Except UK model: 150 W UK model: 130 W Approx. 11.3 kg (24 lb 15 oz) Approx. 355 x 425 x 355 mm (14 x 16³/₄ x 14 inches) (w/h/d, including projections)

Supplied accessories

(1) 45-r/min adaptor Remote commander RM-S421 (1)FM wire antenna (Except G model) (1) AM loop antenna Batteries Sony SUM-3 (NS)

Note

EE: East European model G : German model IT: Italian model

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol [D] are trademarks of Dolby Laboratories Licensing Corporation.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Fiexible Circuit Board Repairing

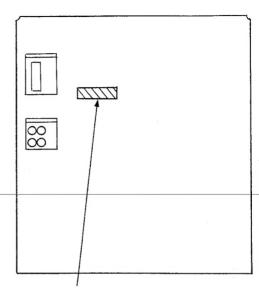
- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK / ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

MODEL IDENTIFICATION

- BACK PANEL ---



4-642-744-11: AEP Model 4-642-744-21 : AEP Model 4-642-744-31 : AEP Model 4-642-744-41 : German Model 4-642-744-51 : Italian Model

4-642-744-61: East European, CIS Model 4-642-744-71 : UK Model 4-642-744-81 : AEP Model

the rear exterior.

This appliance is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT MARKING is located on

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

; INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM. ADVARSEL USYNLIG LASERSTRALING VED ABNING NAR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGA UDS ÆTTELSE FOR STRALING. , AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTINA LASERSÄTEILYLLE. VARO ; LASERSTRALING NAR DENNA DEL AR OPPNAD OCH SPARREN AR URXOPPLAD. ADVARSEL ; USYNLIG LASERSTRALING NAR DEKSEL APNES

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SECTION 1 SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repain parts.

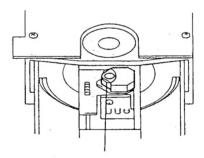
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

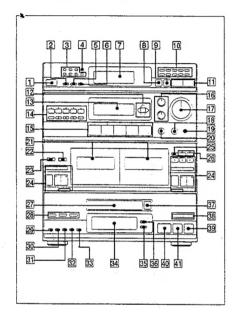
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

- Make POWER switch on with no disc inserted and disc table closed.
- 2. Confirm that the following operation is performed while observing the objective lens.



- Confirm that laser beam is speead.
- 2 Up and down motion of the objective lens. (3 times)



Compact Disc Deck Receiver HCD-A490

- Tuner section

 1 SYSTEM POWER switch (Page 5)

 2 MEMORY button (Page 10)

 3 Buttons for setting the clock and timer (Pages 6, 28, 29,

- 30)

 4 DISPLAY button (Pages 11)

 5 CHARACTER button (Page 11)

 6 STEREO/MONO button (Page 9)

 7 Display window

 8 BAND button (Page 9)

 9 SHIFT button (Page 10)

 10 PRESET STATIONS numeric buttons (Pages 10, 11)

 11 DUAL MODE TUNING +/- buttons (Pages 6, 9, 10, 11, 28, 29)

- Amplifier section
 12 CURSOR CONTROL buttons (Page 25)
 13 SPECTRUM ANALIZER display (Page 26)
 14 PRESET EQ/PERSONAL FILE buttons and indicators
- (Pages 24, 25, 26)
- Function selectors and indicators
- DBS LEVEL and DBS FREQUENCY controls (Page 7)
- (Pages 24, 25, 26)

 IS Function selectors and indicate
 IB DBS LEVEL and DBS FREQUI
 IT VOLUME control (Page 7)
 IB BALANCE control (Page 7)
 IN HEADPHONES Jack (Page 7)
 SURROUND control (Page 7)

Cassette deck section

- 27 Cassette holders
 28 DIRECTION MODE selector (Pages 12, 14, 16)
 29 DOLBY NR (noise reduction) switch (Pages 12, 14)
 24 Tape operation buttons (Pages 12, 14, 15)
- ← (AMS*) Leftward fast winding button
- ►► (AMS*) Rightward fast winding button
- Forward play button and indicator
 Reverse play button and indicator
- Stop button
- **≜** EJECT button
- II PAUSE button and indicator (deck B only)

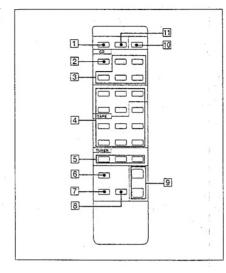
- REC Record button and indicator (deck B only)
 O REC MUTE button (deck B only)
 O REC MUTE button (deck B only)
 O SC D SYNCHRO button (Page 21)
 DUBBING SPEED (HIGH/NORMAL) buttons and indicators (Page 16)

Compact disc player section

- 27 Disc Tray 28 PLAY MODE buttons
- 28 PLAY MODE buttons
 CONTINUE button (Pages 19, 20, 23)
 SHUFFLE button (Page 19)
 PROGRAM button (Page 20, 22)
 29 TIME button (Pages 17, 22)
 30 REPEAT button (Page 19)
 31 FADE button (Page 24)

- MUSIC SCAN button (Page 17)
- EDIT button (Page 23)
- 34 Display window
- 35 CLEAR (program clear) button (Page 20)
 36 CHECK (program check) button (Page 20)
 37 ≜ OPEN/CLOSE button (Page 17)

- (stop) button (Page 17)
- 40 (play) button (Page 17) 41 11 (pause) button (Page 17)
- * AMS is the abbreviation of Automatic Music Sensor.



Remote commander RM-S421

1 FUNCTION button

Each time this button is pressed, the function mode changes among VIDEO, TAPE, CD, TUNER and PHONO.

[2] This button is inoperative with this unit.

3 CD operation buttons

/ ►► (AMS*) buttons, ► (play) button, II (pause) button, (stop) button

4 TAPE DECK A and DECK B operation buttons

✓ / ►► (AMS*) buttons.

✓ / ► Play buttons, Stop buttons

DECK B only

 Recording button. II Pause button

5 Tuner operation buttons

SHIFT button

PRESET +/- buttons

These buttons are used to select the preset station number.

6 EQUALIZER button
7 SELECT 5 button

Each time the button is pressed, the preset equalization switches among 5 preset patterns (HALL, DANCE, VOCAL, POPS and BGM).

8 P.FILE button
9 VOL (volume) +/- buttons

SYSTEM POWER button
SLEEP button

* AMS is the abbreviation of Automatic Music Sensor.

SECTION GENERAL N

instruction manua ß. extracted

SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

 Clean the following parts with a denatured alcoholmoistened swab:

record/playback head

pinch roller

erase head

rubber belt

capstan

idler

Demagnetize the record/playback head with a head demagnetizer.

(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustment.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustment should be performed with the rated power supply voltage unless otherwise noted.

[Torque Measurement]

Torque	Torque Meter	Meter Reading
FWD	CQ-102C	30 to 65 g*cm 0.42 - 0.9 oz*inch
FWD Back Tension	CQ-102C	1 to 6 g*cm 0.014 - 0.08 oz*inch
REV	CQ-102RC	30 to 65 g*cm 0.42 - 0.9 oz*inch
REV Back Tension	CQ-102RC	1 to 6 g*cm 0.014 — 0.08 oz*inch
FF, REV	CQ-201B	70 to 120 g*cm 0.97 - 1.65 oz*inch

SECTION 4 ELECTRICAL ADJUSTMENTS

DECK SECTION

- 1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position DOLBY NR switch: OFF

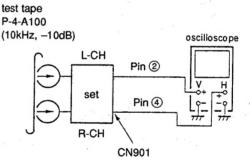
Test tape

Tape	Contents	Used for
P-4-A100	10kHz, -10dB	Head Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

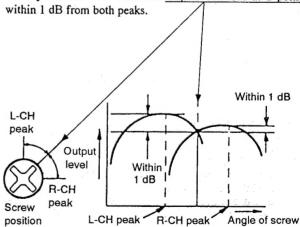
[Record/playback Head Azimuth Adjustment] | Deck A | Deck B |

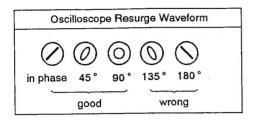
Procedure:

1. FWD/REV: Playback mode



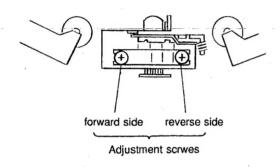
 Turn the adjustment screw and check where the output peaks are. If the peaks of L-CH and R-CH do not coincide, turn the adjustment screw until the <u>outputs coincide</u> at a point





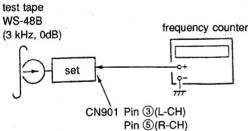
- 3. Change the REV playback mode and repeat the steps 1 to 2.
- 4. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location: Record/playback head



[Tape Speed Adjustment] Deck A Deck B Procedure:

- Adjust the high speed first, starting from Deck A and then Deck B.
- Playback Mode —



(High Speed Adjustment)

- Short-circuit CN904 (MAIN TC BOARD) with the power off.
- 2. Set deck A into the FWD mode.
- Turn on the power, press the High speed DUB switch, and set high speed playback.
- Adjust deck A: RV72A (H) so that the reading of the frequency counter becomes the specified value.
- 5. Stop deck A.
- 6. Carry out steps 2 to 5 for deck B in the same way.
- 7. After adjusting, unshort-circuit CN904.

(Normal Speed Adjustment)

- 1. Set the FWD playback mode.
- Adjust deck A: RV71A (L), deck B: RV71B (L) so that the reading of the frequency counter becomes the the adjustment value

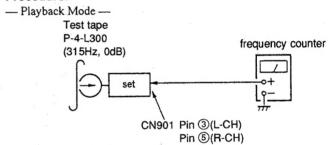
Adjustment Values:

High Speed	6000 ± 30Hz
Normal Speed	3000 ± 15 Hz

Adjust so that the difference between tape top and tape end is within 3%. Adjust so that the deviation between the speeds of deck A and deck B at the tape top is within 1.0%.

Adjustment Location: MD-A, B boards

[Playback Level Adjustment] Deck A Deck B Procedure:



Adjust deck A: RV11A (L-CH), RV21A (R-CH), deck B: RV11B (L-CH), RV21B (R-CH) so that the output level is within the adjustment values specified.

Adjustment Level:

CN901 level: -7.5 dB ± 0.5 dB (0.31 to 0.35V)

Level Difference between Channels:

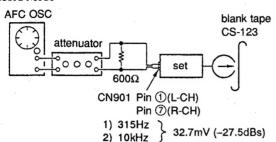
Within 1.0 dB

Check that the playback level does not change when playback and stop is repeated.

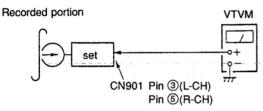
Adjustment Location: MD-A, B boards

[Record Bias Adjustment] Deck B

1. Record Mode



2. Playback Mode



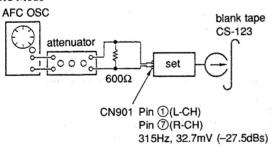
Playback the signal recorded at step 1, and check that the adjustment value specified below is satisfied. If it is not, adjust RV12 (L-CH) and RV22 (R-CH), and repeat steps 1 and 2.

Adjustment Level: Playback output of 315 Hz to playback output of 10 kHz: -0.5 dBs to 0.5 dBs.

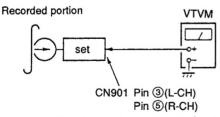
Adjustment Location: MD-B board

[Record Level Adjustment] Deck B Procedure:

1. Record Mode



2. Playback Mode



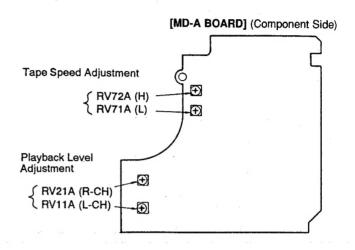
Playback the signal recorded at step 1, and check that the adjustment value specified below is satisfied. If it is not, adjust RV701 (L-CH) and RV801 (R-CH), and steps 1 and 2.

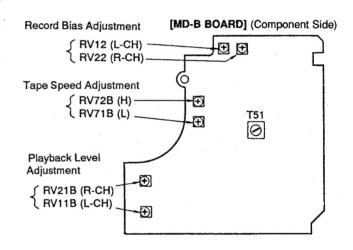
Adjustment Level:

CN901 level: -27.0 dBs to -28.0 dBs (31 to 35 mV)

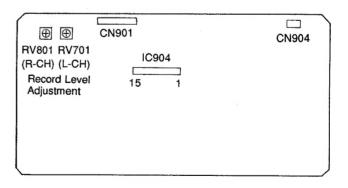
Adjustment Location: Main board

Adjustment Location:





[MAIN TC BOARD] (Component Side)

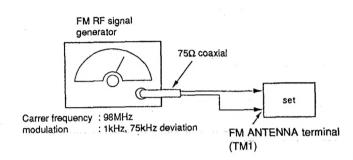


TUNER SECTION

Note: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

FM SECTION ADJUSTMENTS

Setting:



FM Tuned Level Adjustment

Band: FM

Procedure:

- Supply a 25 ± 4dBμ (EE, CIS), 30 ± 4dBμ (EXCEPT EE, CIS) 98MHz (EXCEPT EE, CIS),70MHz (EE, CIS) signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz (EXCEPT EE, CIS),70MHz (EE, CIS)
- 3. Adjust RV2 so that the TUNED indicator goes on.

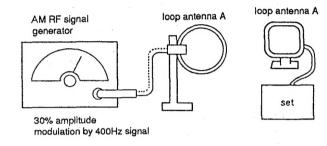
Adjustment Location: MAIN board

EE: East European model

Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by trimmer capacitors.

AM SECTION ADJUSTMENTS

Setting:



AM Tuned Level Adjustment

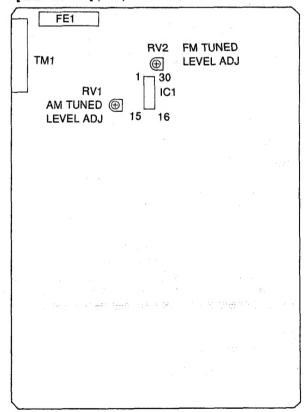
Band: AM

Procedure:

- Set loop antenna input level to 94dBμ/m, 1050kHz and no signal tuned light should not on.
- 2. Ture the set to 1050kHz
- 3. Adjust RV1 so that the Voltage of IC1 7 pin is set to low.

Adjustment Location: MAIN BOARD

[MAIN BOARD] (Component Side)



SUBCARRIER ADJUSTMENT (CIS Model only)

SWIT(Function Selector : TUNER Band Selector : FM STEREO/MONO : MONO				
SIGNA GENEI	AL RATOR	69 MHz, 60 dB, FM modulated (MONO SIGNAL)				
STEP	TEST STAGE	FM TUNING FREQUENCY	SIGNAL GENERA- TOR	AD- JUST- MENT	REMARKS	
1	fo	69 MHz	1 kHz (10 kHz dev.)		The value in this state should be O dB (Vo).	
2			31.25 kHz (10 kHz dev.)	L1701	Adjust for maximal output.	
3	Q			RV1701	Indication is +14 dB against Vo	

VCO FREQUENCY ADJUSTMENT

SWITCH POSITION	STEREO/MONO : STEREO			
SIGNAL GENERATOR	69 MHz, 60 dB, FM modulated (MONO SIGNAL)			
	FM TUNING FREQUENCY	ADJUSTMENT	REMARKS	
	69 MHz	RV1702	Adjust for 31.25kHz ± 50 Hz.	

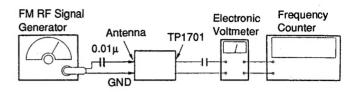


Fig.1 SUBCARRIER

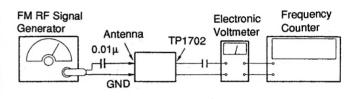
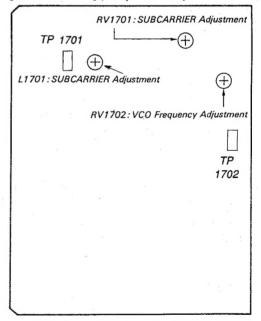


Fig. 2 VCO FREQUENCY

[POLAR BOARD] (Component Side)

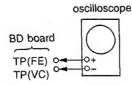


CD SECTION

Note:

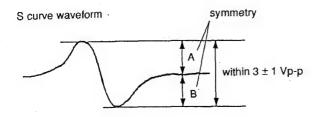
- 1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than $10M\Omega$ impedance.
- Clean an object lens by an applicator with neutral detergent when the signal lever is low than specified value with the following checks.

S Curve Check



Procedure:

- 1. Connect oscilloscope to test point TP (FE) on BD board.
- 2. Connect between test point TP (FEI) and TP (VC) by lead wire
- 3. Turned Power switch on.
- 4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
- 5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1 Vp-p.

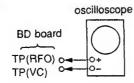


6. After check, remove the lead wire connected in step 2.

Note: • Try to measure several times to make sure than the ratio of A: B or B: A is more than 10: 7.

 Take sweep time as loge as possible and light up the brightness to obtain best waveform.

RF Level Check



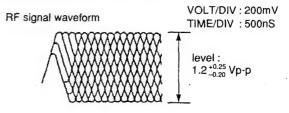
Procedure:

- 1. Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turned Power switch on.

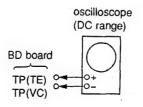
- 3. Put disc (YEDS-18) in and playback.
- Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

Clear RF signal waveform means that the shape "\$\sigma"" can be clearly distinguished at the center of the waveform.

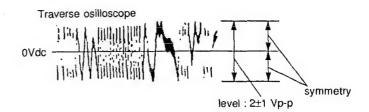


E-F Balance Check



Procedure:

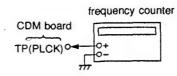
- Connect test point TP (ADJ) on MAIN board to ground and TP(TEI) to TP (VC) with lead wire.
- 2. Connect oscilloscpe to test point TP (TE) on BD board.
- 3. Turned Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0Vdc, and check this level.



6. Remove the lead wire connected in step 1.

RF Free-run Frequency Check Procedure:

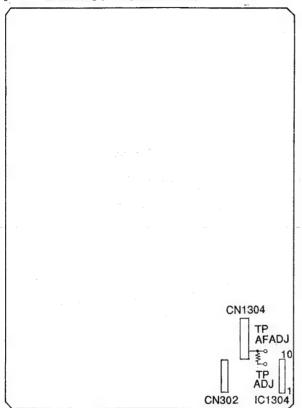
 Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turned Power switch on.
- 3. Confirm that reading on frequency counter is 4.3218MHz.

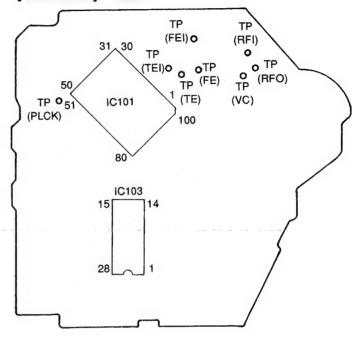
Adjustment Location:

[MAIN BOARD] (Component Side)

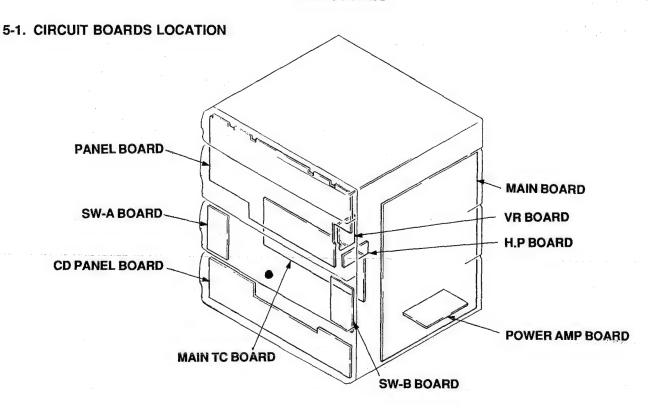


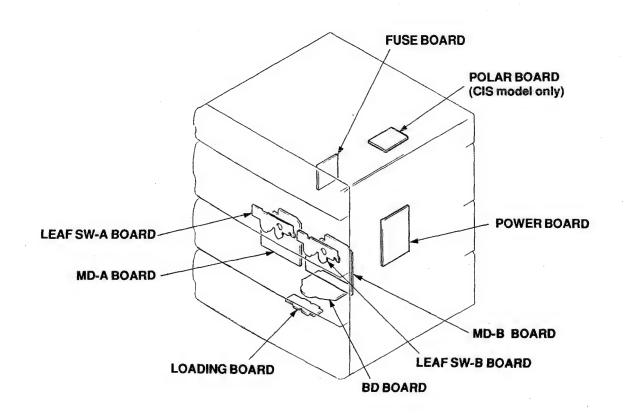
Adjustment Location:

[BD BOARD] — Side A —

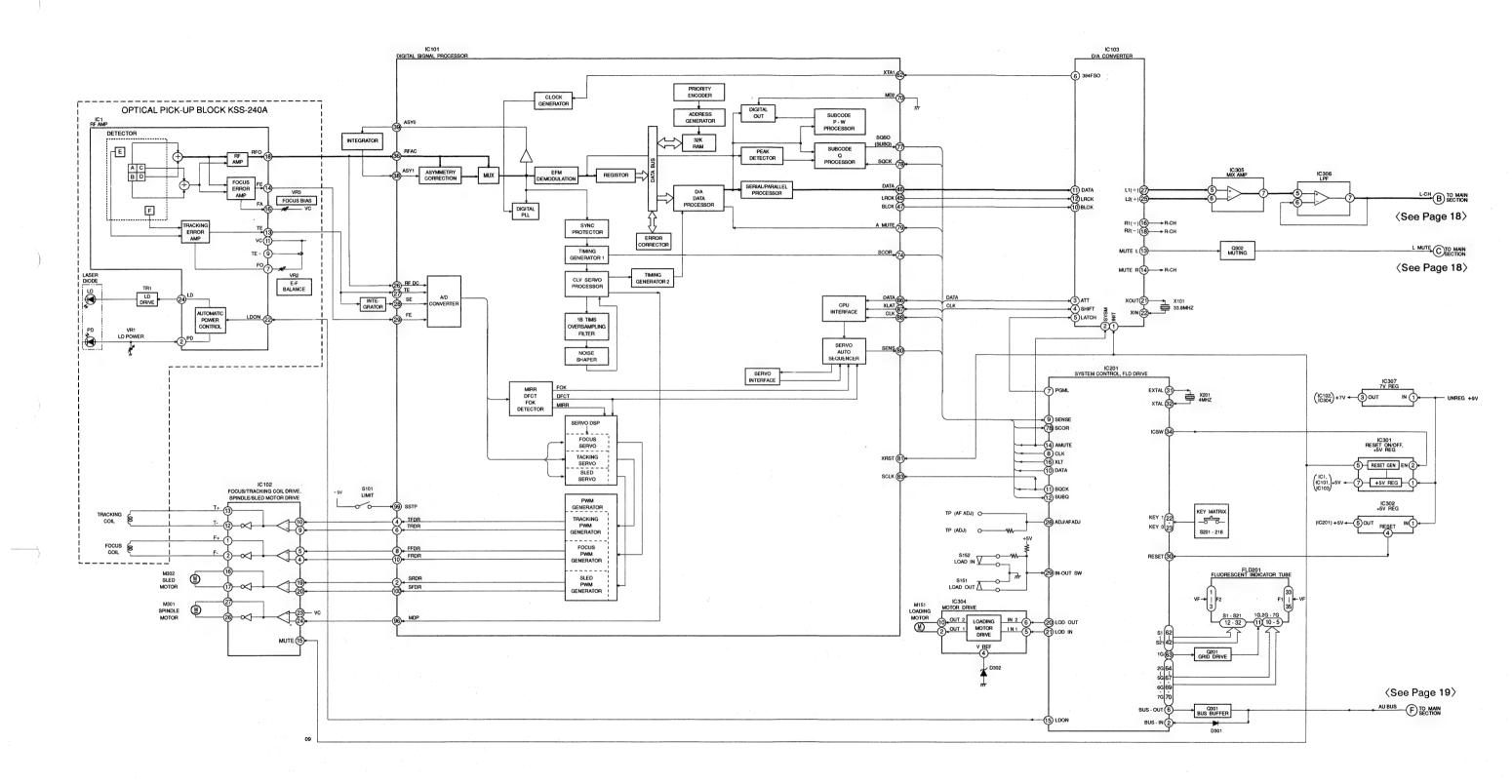


SECTION 5
DIAGRAMS

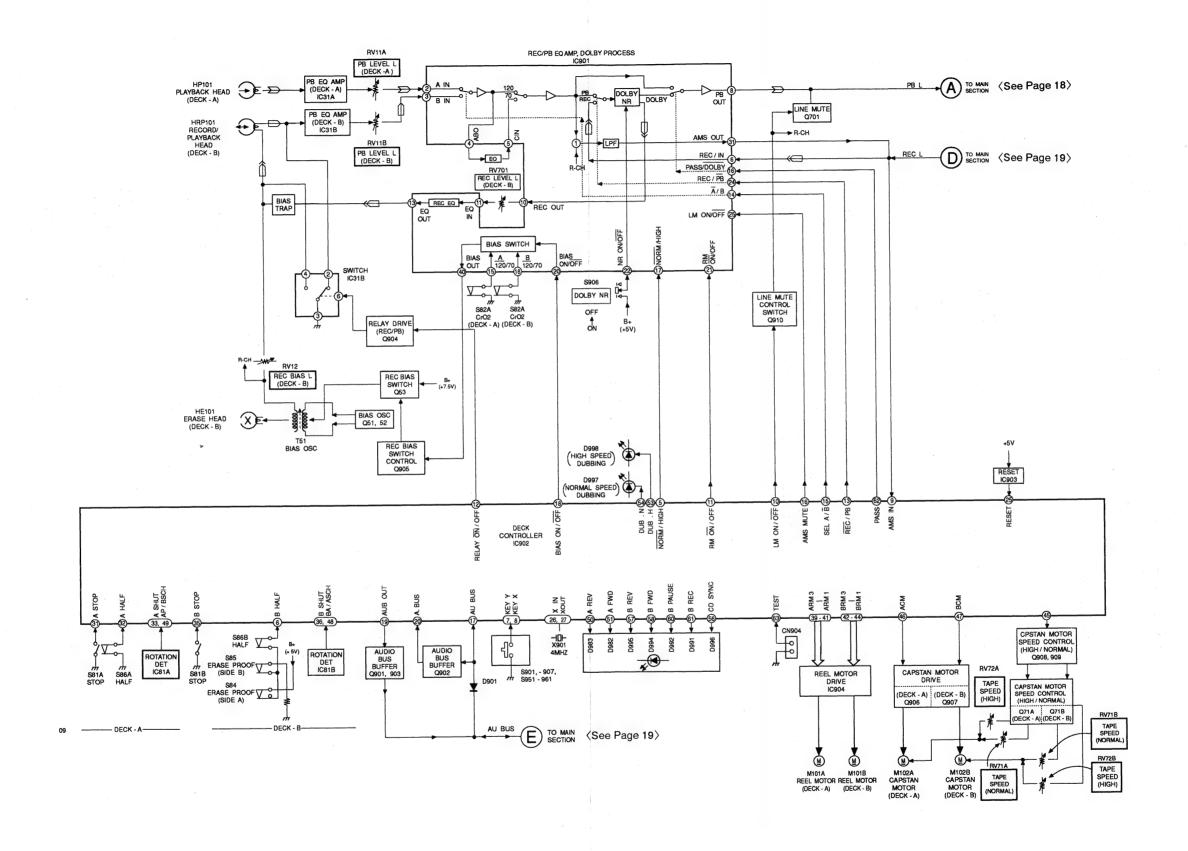


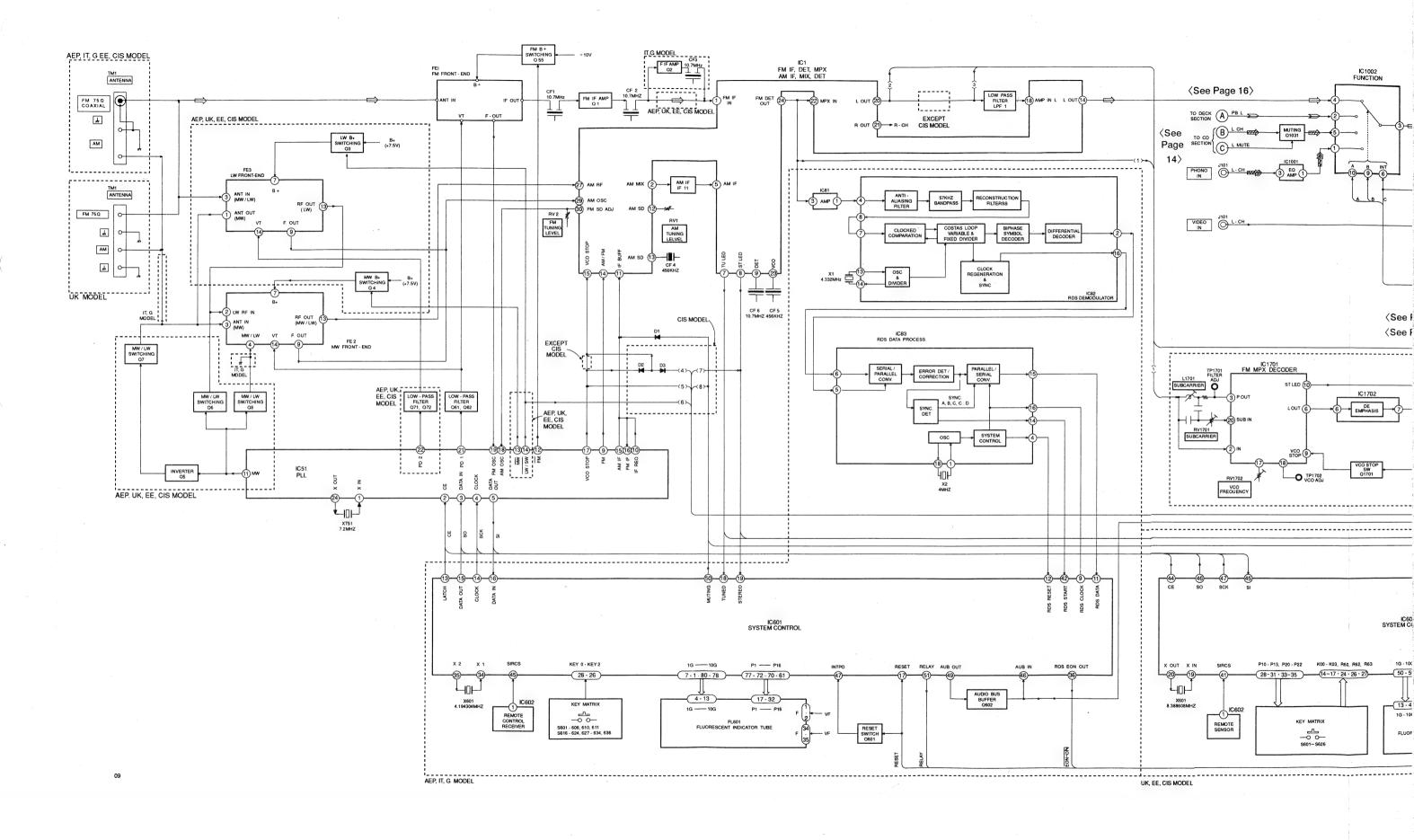


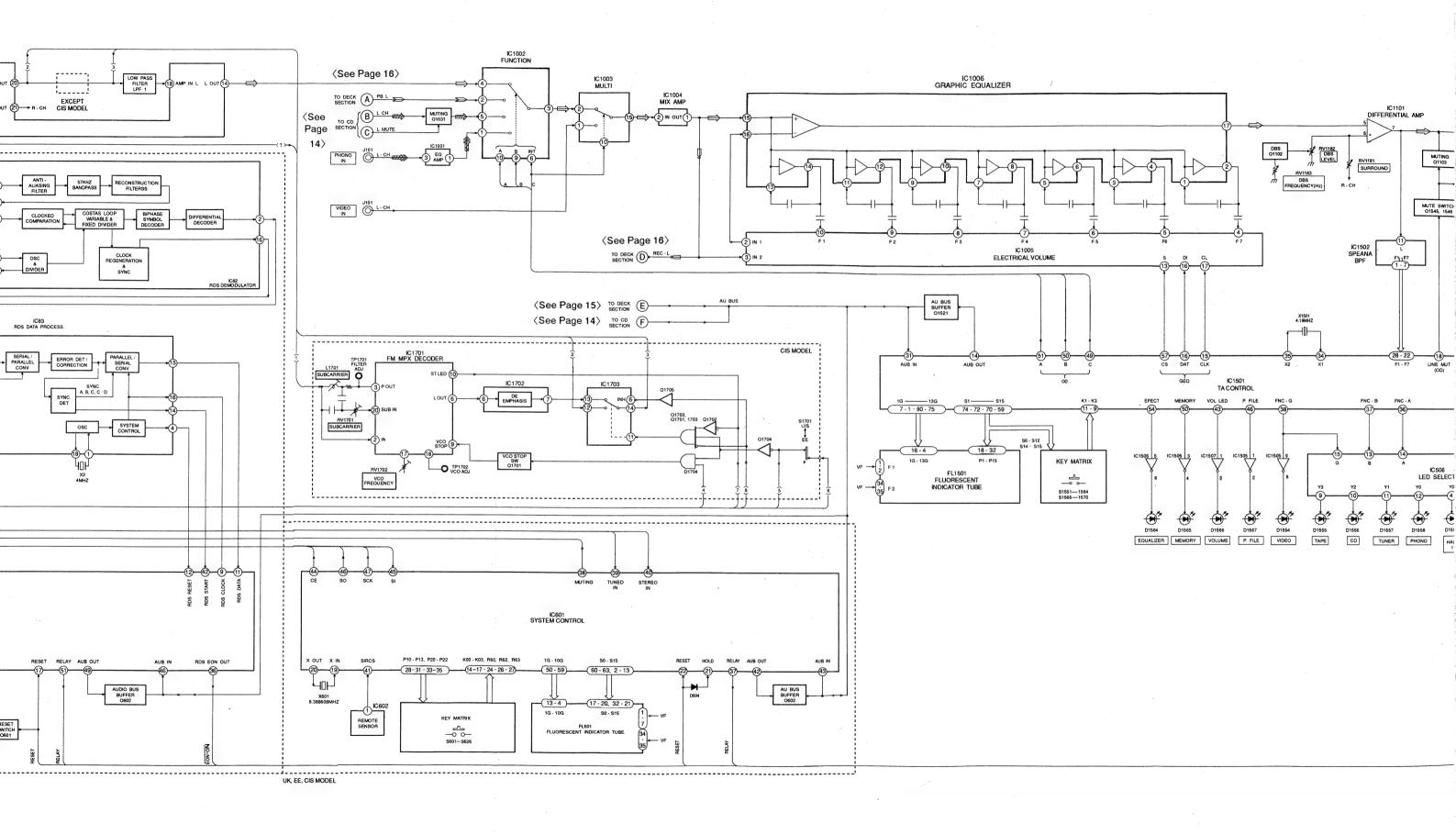
5-2. BLOCK DIAGRAMS — CD SECTION —

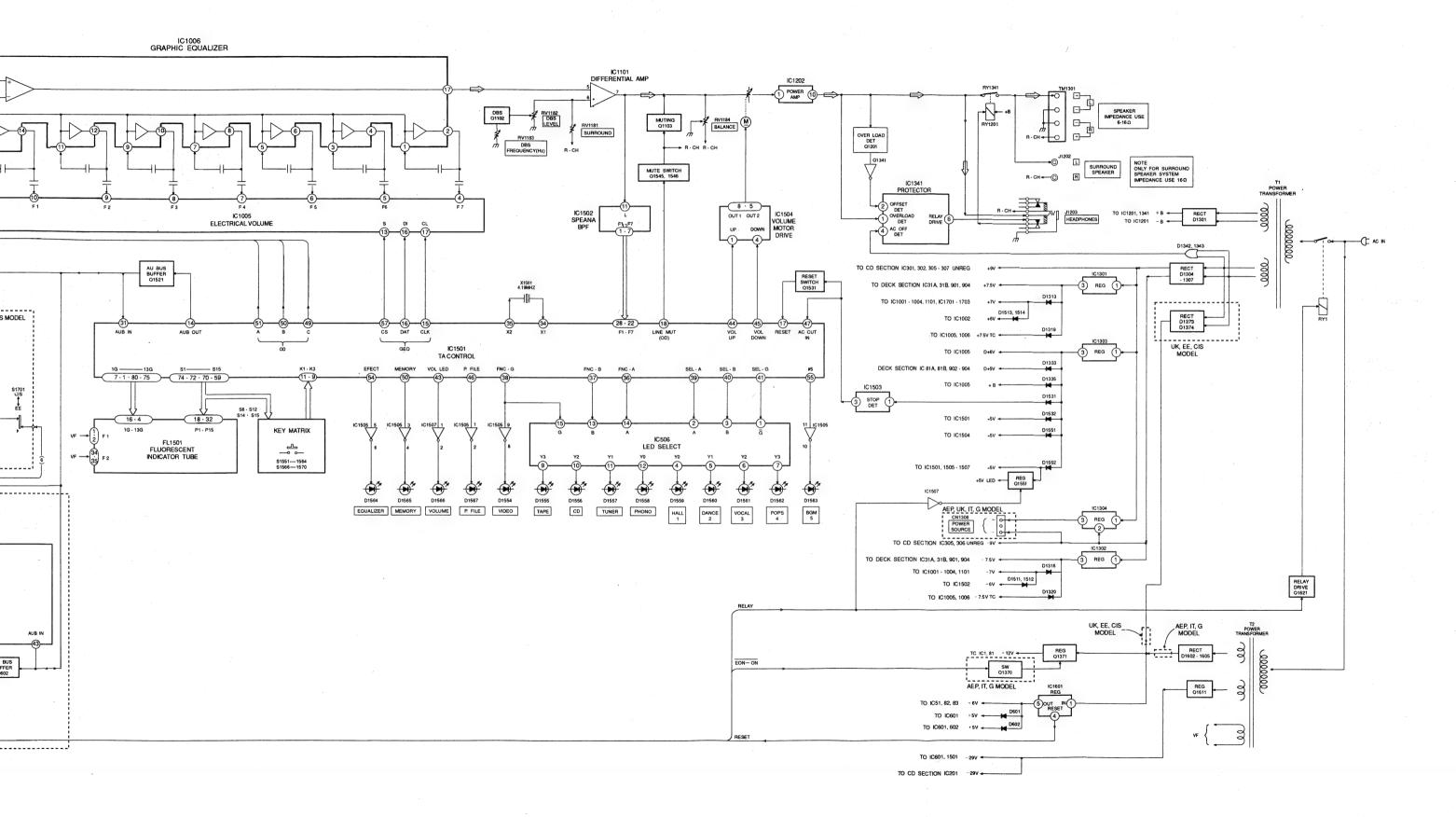


- DECK SECTION -







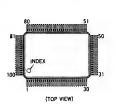


5-3. SEMICONDUCTOR LEAD LAYOUTS

28 AAAAAAAA AAAA AAAA AAAA

BA6392FP

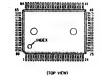
CXD2515Q



CXD2565AM



CXP82316-035Q uPD78042GF056-3B9 uPD78043GF-079-3B9



HA12171NT M5289P



IR3R42



L78MR06 L78LR05D



LA1835



LA5602



LB1639 M5218AP UPC4558C



LB1641 UPC1237HA



LC7073



LC7218



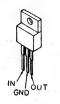
M50964-261FP



M51943BSL



M5F7806L M5F78M07L M5F78M12 M5F79M07L



MC14052BCP SAA6579 SN74HC139AN UPD4053BC XR1091DCP



NJU7305L



SN74HCU04AN



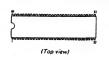
STK-4152MK2K STK-4162MK2



TA8242K



TMP47C1270AN-H227



uPC1330GR



(TOP VIEW)

UPC4570G2



DTA144ES DTA124ES DTC144ES



4





2SA1162-G 2SB1068-L 2SC1841-PAFAEA



2SC3112-B

2SA1175-HFE



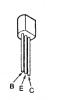
2SB1094-LK 2SD2012



2SC2001TP-K1K2 2SD1616A-K



2SC3112-B



2SK246-GR3



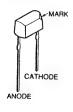
D5SBA20F01



NJL5165K-B (H1)



SEL5221S-TH8C SEL5421E-TH8C



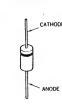
SEL5421E-TH8C SEL5821A-TH8C



UZ-4.7BSB UZL-11M1 UZL-33L UZP-5.6B



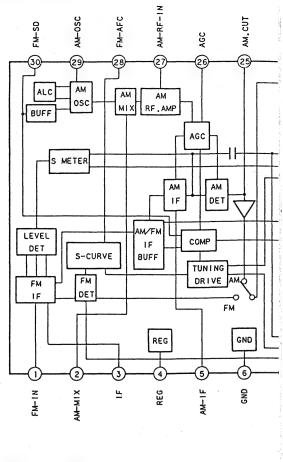
1N4148M 11EQS04 11ES2



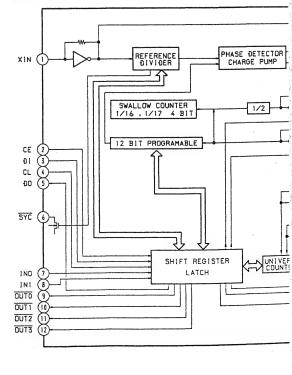
5-4. IC BLOCK DIAGRAMS

- TUNER SECTION -
- IC Block Diagrams.

IC1 LA1835



IC51 LC7218



5-4. IC BLOCK DIAGRAMS

- TUNER SECTION -
- IC Block Diagrams.

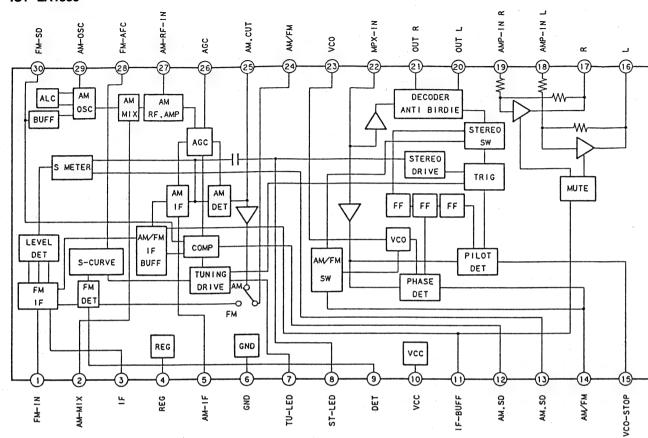
IC1 LA1835

B (H1)

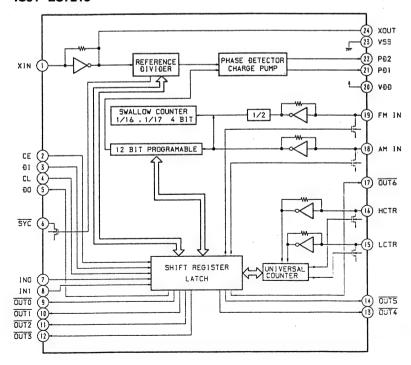
TH8C

TH8C

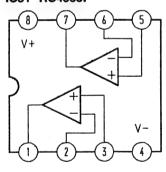
TH8C



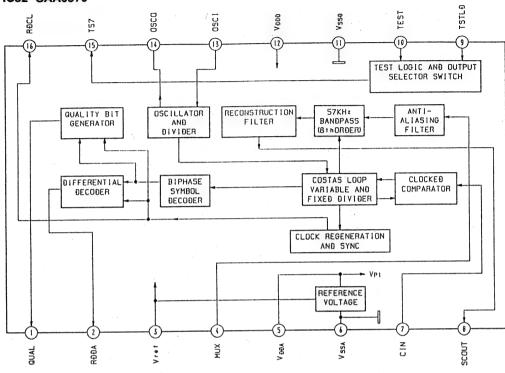
IC51 LC7218



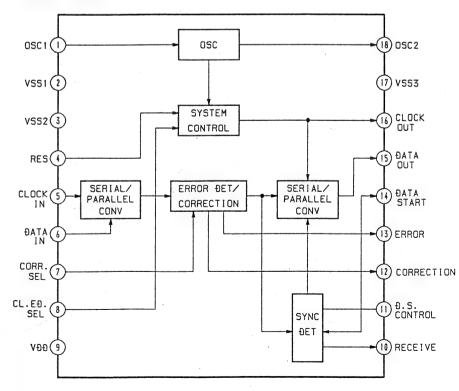
IC81 RC4558P

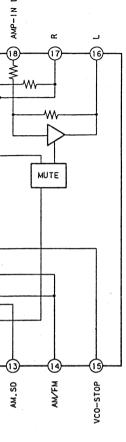


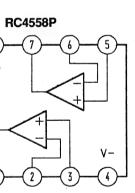
IC82 SAA6579

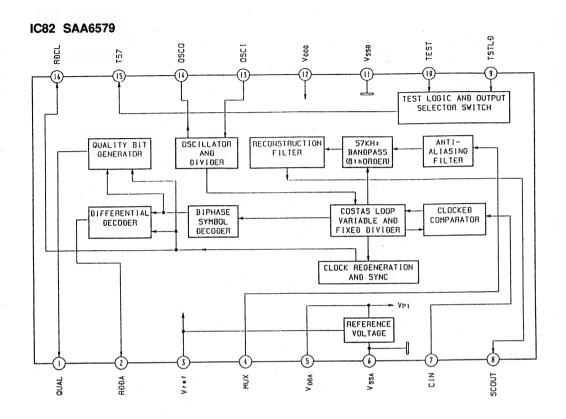


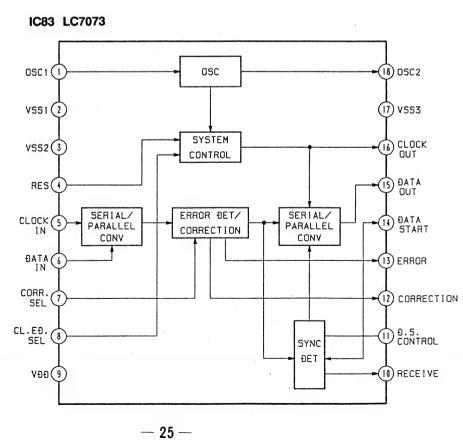
IC83 LC7073



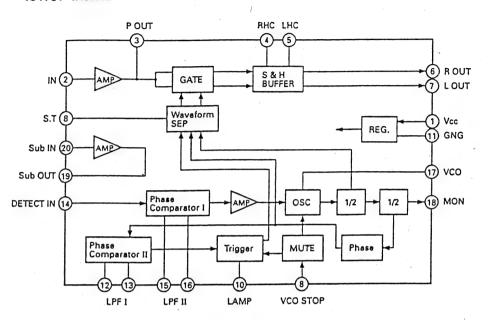




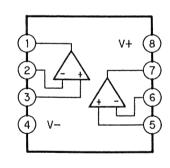


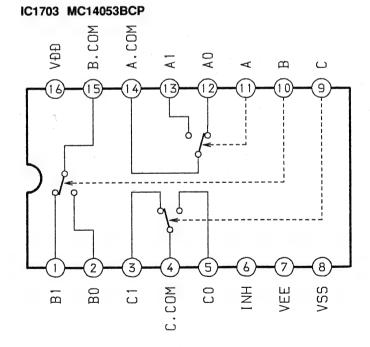


IC1701 IR3R42









- 5-5. SCHEMATIC DIAGRAM TUNER SECTION
 - · Refer to page 31 for Printed Wiring Boards.
 - See page 24 for IC Block Diagrams.

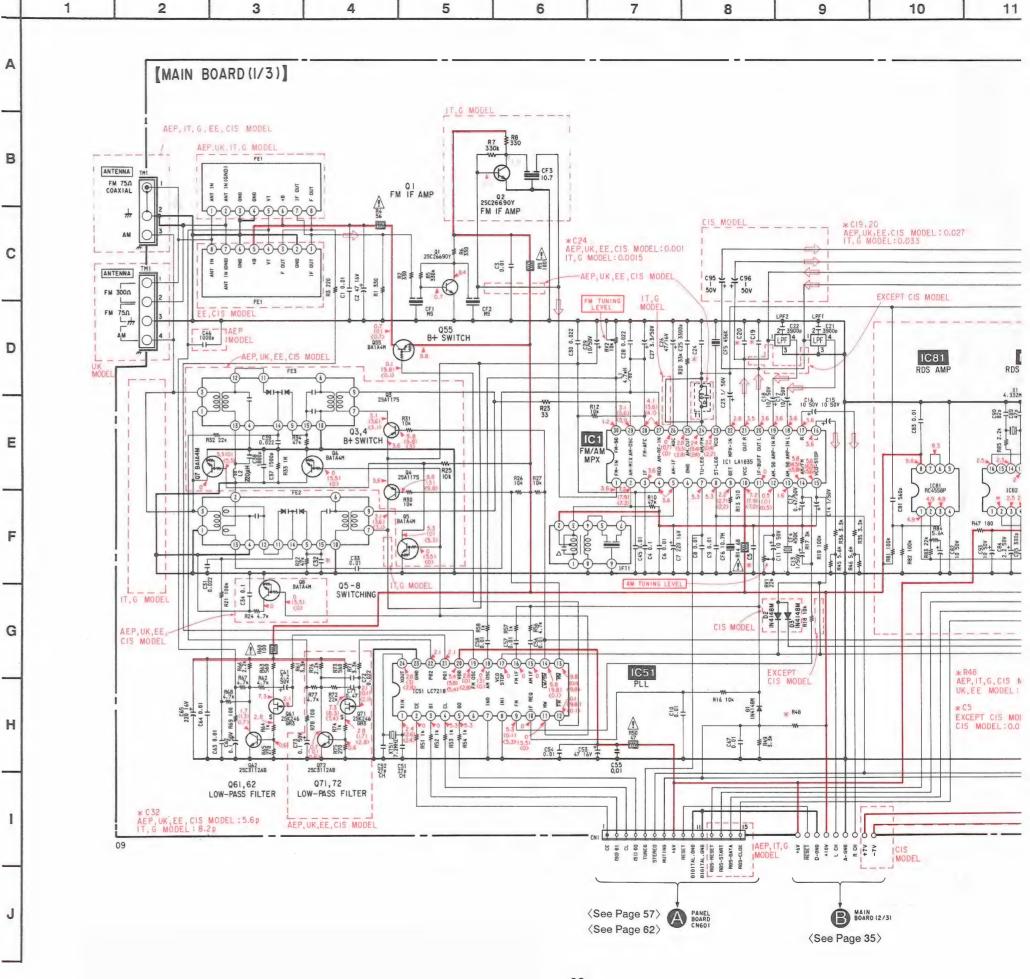
Note:

- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- · : nonflammable resistor.
- : panel designation.

Note: The components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

- · B+ Line
- ====: B- Line
- adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
 - no mark : FM
 - (): MW
 - < > : LW
- can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ).
 Voltage variations may be noted due to normal production tolerances.
- G : German model.
- IT : Italian model.
- EE : East European model.
- · Signal path.
 - ⇒ : FM



[POLAR BOARD] (15 MODEL R1704 ≱ RV1702 000 R1701 18k W R1703 6.8k IC1701 *C19,20 AEP,UK,EE,CIS MODEL:0.027 IT,G MODEL:0.033 (FILTER ABJ.) EXCEPT CIS MODEL AEP, IT, G MODEL 21 100p 4 IC83
RDS ERROR
CORRECTION IC81 IC82 RDS DECODER C1719 47 25V C1714 R1709 1 50V 68K T+ 33 16V 15 50v 2.2k 629 628 629 668 629 668 629 TE SE C1715 Q1701 BN1A4M B+ SWITCH 1C1702 B1703 1N4148H BA1A4H LED SWITCH 8765 r®-Ø-6-5 1082 SAA6579 2.5 2.5 2.5 2.5 1.2 3 4 3 6 7 8 1084 SAA6579 IC81 RC4558P 4.9 4.9 Q1703 BA1A4M MUTE POLAR PILOT TONE R1720 R1713 W 51701 **→** → R1719 Ð1705 1N4148M T 0.01 RI718 100% 100% 100% 100% CN2 CIS MODEL *R48 AEP,IT,G,CIS MODEL:IOk UK,EE MODEL:3.3k C1726 Ð1702 1N4148M 10 500 *C5 EXCEPT CIS MODEL: 0.1 CIS MODEL: 0.01 IC1703 SWITCH C1727 1 50V R1722 R1715 100k 100k B MAIN BOARD (2/3) : Page 35>

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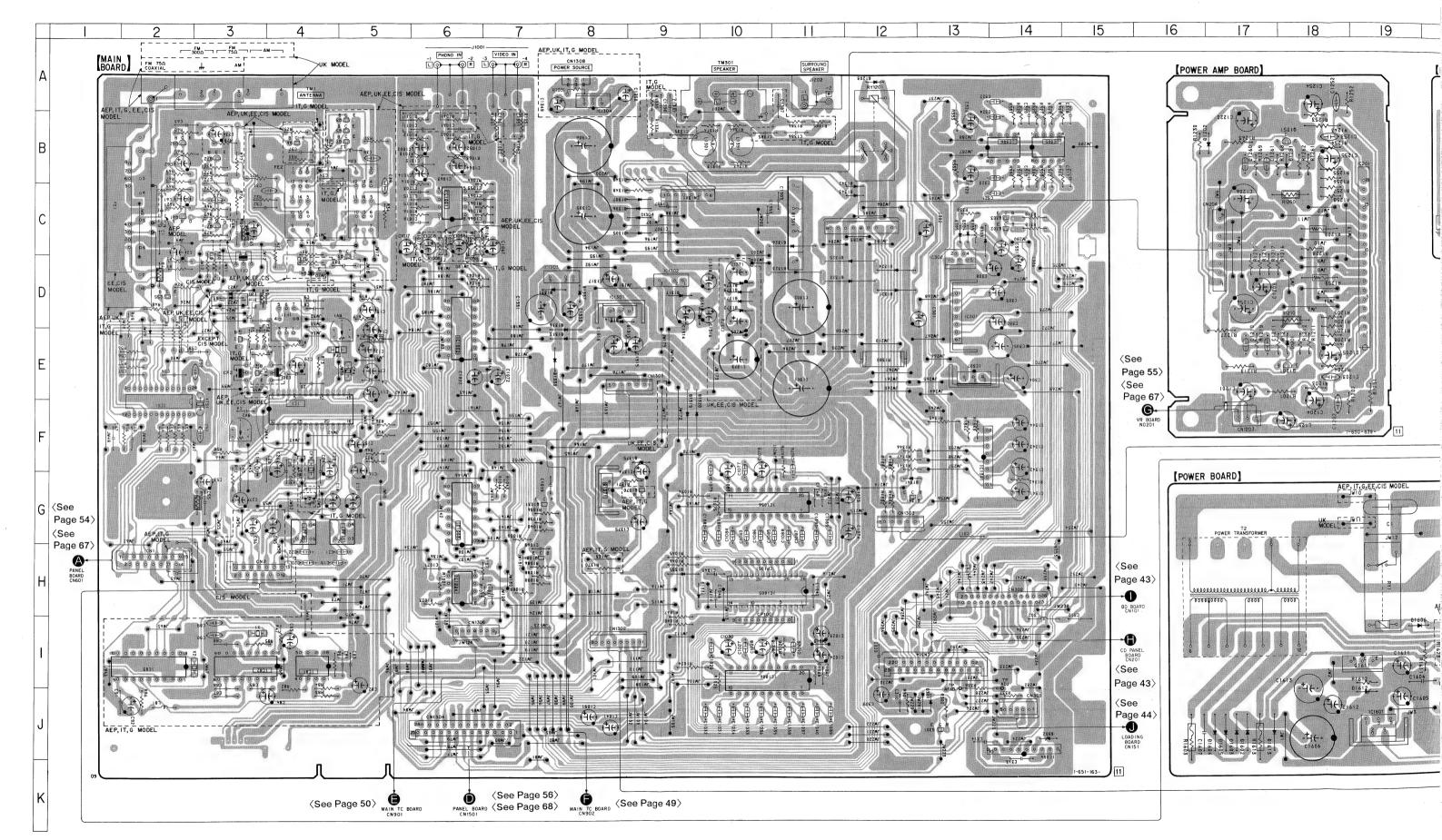
18

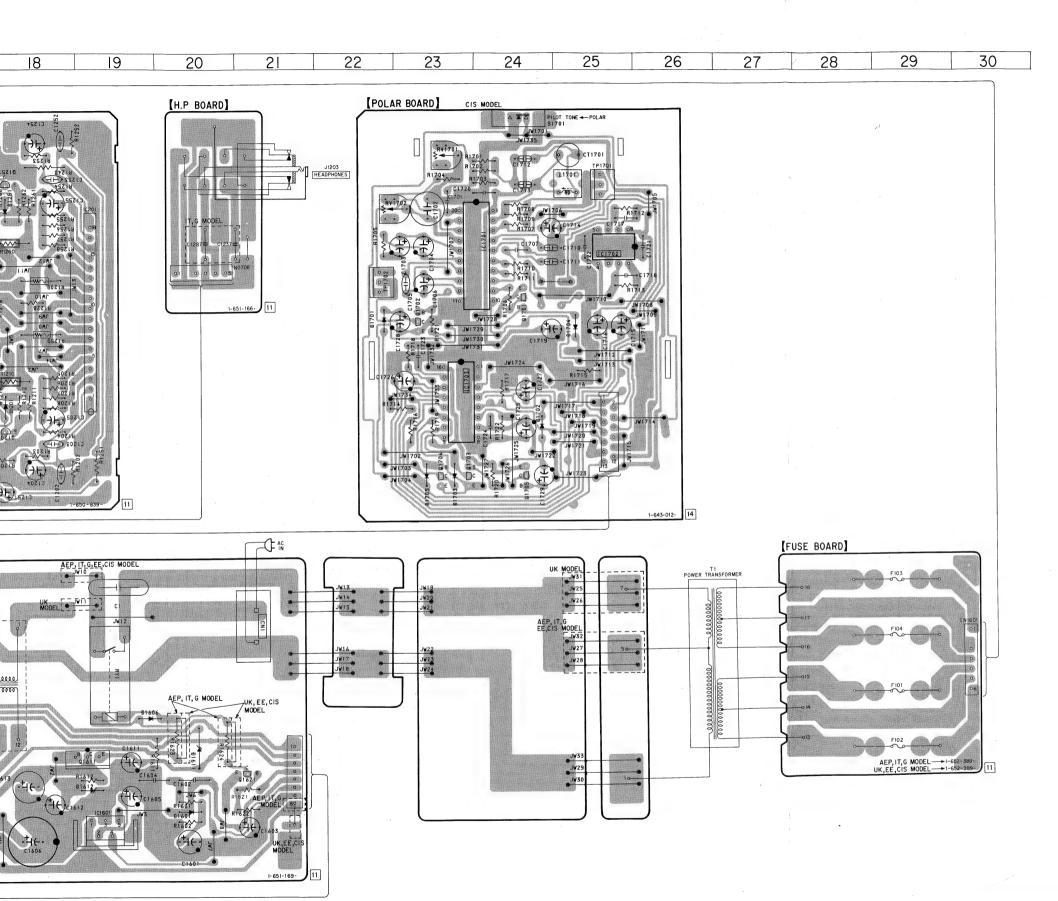
19

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5-6. PRINTED WIRING BOARDS — MAIN SECTION — See page 12 for Circuit Boards Location. See pages 22, 23 for Semiconductor Lead Layouts.





Semiconductor Location

Ref. No.	o. Location	Ref. No.	Location	Ref. No.	Location
D1 D2 D3 D301 D302 D303 D304 D305 D1201 D1202 D1203 D1251 D1301 D1305 D1306 D1307 D1313 D1314 D1315 D1316 D1317 D1318 D1319 D1320 D1321 D1322 D1323 D1324 D1325 D1326 D1331 D1333 D13341 D1335 D1336 D1337 D1341 D1342 D1343 D1371 D1372 D1373 D1374	B-16 A-12 B-18 C-11 C-9 C-8 C-8 C-8 E-7 D-8 E-8 D-7 D-9 F-9 D-12 D-11 C-11 D-17 E-7 H-9 D-8 G-12 C-12 D-10 D-10 D-10	D1375 D1601 D1602 D1603 D1604 D1605 D1606 D1611 D1612 D1613 D1701 D1702 D1703 D1704 D1705 IC1 IC51 IC81 IC82 IC83 IC301 IC302 IC304 IC305 IC306 IC307 IC1001 IC1002 IC1003 IC1004 IC1005 IC1006 IC1056 IC1201 IC1303 IC1304 IC1304 IC1305 IC1006 IC10701 IC1303 IC1304 IC1307 IC1001 IC1005 IC1006 IC10701 IC1005 IC1006 IC10701 IC1301 IC1303 IC1304 IC1304 IC1304 IC1304 IC1304 IC1301 IC1301 IC1301 IC1301 IC1301 IC1301 IC1301 IC1301 IC1301 IC1701	F-8 J-20 J-17 J-16 J-17 J-19 J-19 J-17 D-22 E-24 F-23 D-25 F-4 F-2 I-4 I-3 I-2 E-13 J-14 B-14 B-14 B-14 B-14 B-10 B-19 D-9 D-7 A-8 G-10 B-19 D-9 D-7 A-8 G-13 J-19 C-24 C-25 C-24 C-25 C-25 C-24 C-25 C-25 C-25 C-26 C-26 C-26 C-26 C-26 C-27 C-28	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q55 Q61 Q62 Q71 Q72 Q301 Q302 Q303 Q1031 Q1081 Q1201 Q1201 Q1371 Q1371 Q1371 Q1371 Q1371 Q1371 Q1371 Q1370 Q1371	D-23 E-3 E-3 C-4 D-4 B-4 B-4 B-4 B-2 C-2 B-3 J-13 C-14 C-14 C-7 E-18 B-12 D-23 E-23 E-24 F-24

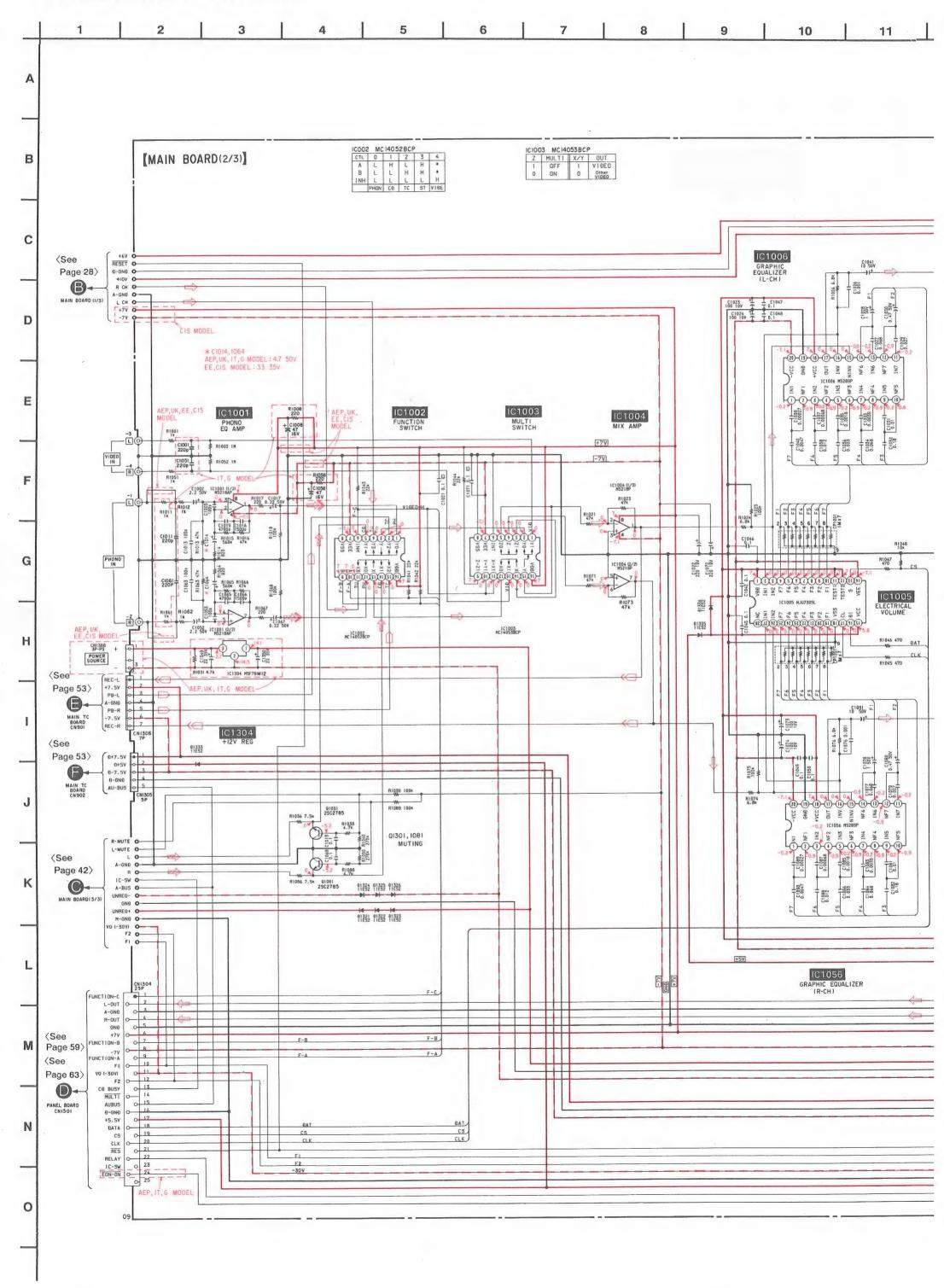
Note:

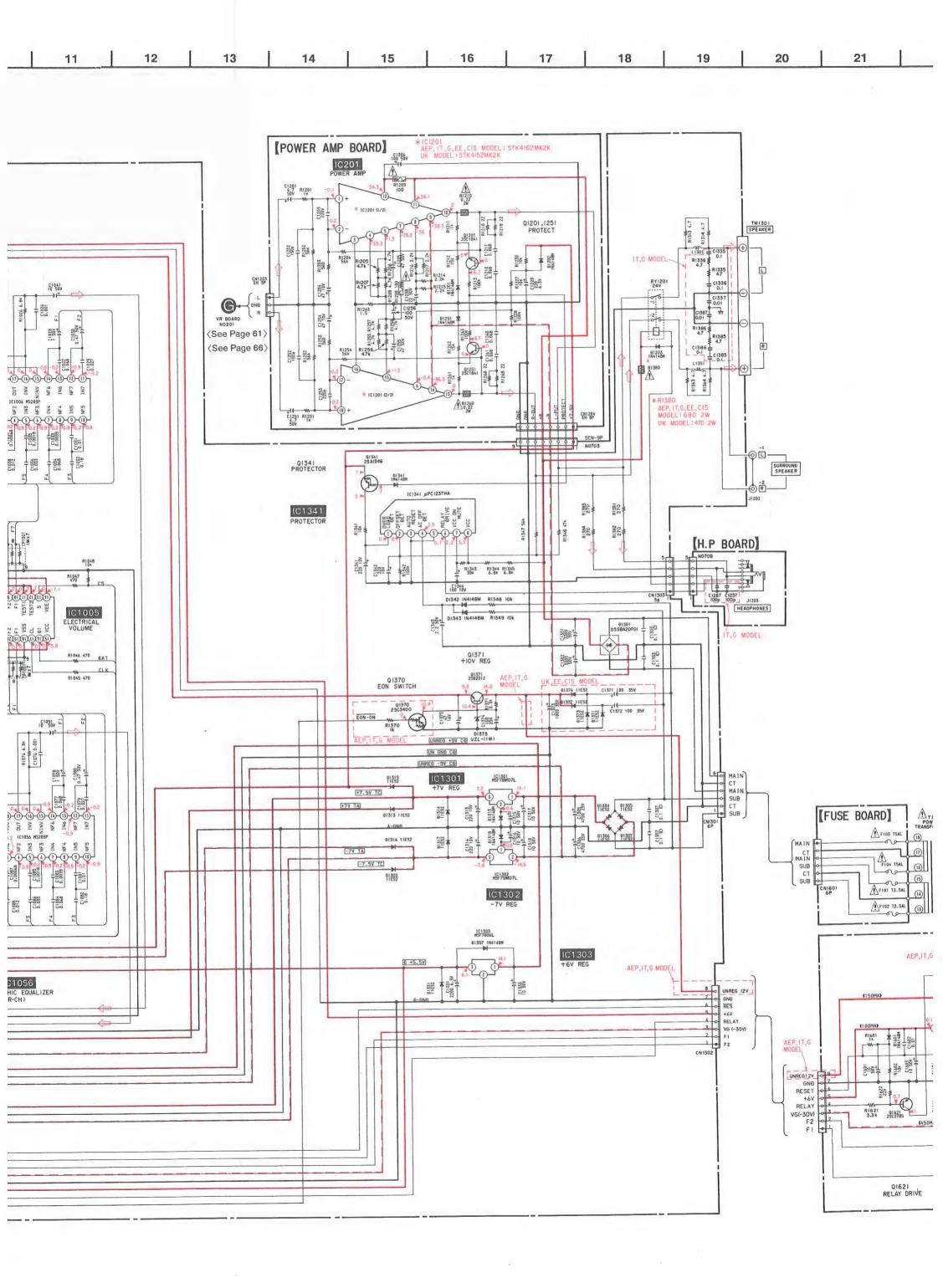
parts extracted from the component side.
Pattern from the side which enable seeing.

G : German model.

IT : Italian model.

EE : East European model.





28

 IC Block Diagrams. IC1005 NJU7305L NC 1N1 1N2 F7 162MK2K CHIP SELECT & ANALOG SWITCH LATCH PROTECT SPEAKER TIMING SELECT GAIN SELECT IT,G MODEL LATCH R1336 4.7 R1335 L C1220 220 520 6.3v RY120 24V RESISTOR NETWORK CIRCUIT R1386 4.7 V60 INI IN2 F6 F6 R 01203 1N4148H IC1006, 1056 M5289P L1351 INV NOM-I NPUI KR1380 AEP, IT,G,EE,CIS MODEL: 680 2W UK MODEL: 470 2W CN1204 EH 8P 10K @ L SURROUND 68K 68K 68K 68K R138-1 R1384 270 R1382 (H.P BOARD) IC1341 μPC1237HA IT, G MODEL OFFSET DET LATCH/ AUTORESET AC OFF + 10 01372 11E52 IC1601 L78MR06 INPUT 5 0UTPUT START PROTECTOR O MAIN SUB CT SUB C1307 [POWER BOARD] [FUSE BOARD] CNI30 RESET OUT F103 T5AL Co (2 RESET C1318 (18) MAIN SUB CT SUB (16) VO DETECTOR RYI F101 T2.5A (14) 11606 1N414BH 3) GNĐ UK, EE, CIS MODEL All capacitors are in μF unless otherwise noted. $pF:\mu\mu F$ R1623 50WV or less are not indicated except for electrolytics and AEP, IT, G MODEL AEP, IT, G MODEL All resistors are in Ω and 1/4W or less unless otherwise IC1601 specified. R1603 4.7 +6V REG △ : internal component. GNÐ A O RELAY

2 O F1

1 C T F2 : nonflammable resistor. 91602 91652 : fusible resistor. C1607 : panel designation. 01603 11652 11652 AEP, IT, G MODEL (10) Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified. UNREG12V GNÐ RESET +6V B+ Line (1) R1622 22k ----: B- Line Voltage and waveforms are dc with respect to ground 81611 4.7k RELAY R1621 01621 3,3k 2502785 VG(-30V) F2 F1 under no-signal conditions. T2 POWER TRANSFORMER no mark: FM 01613 11E52 # B1611 UZP-5.6B (B) * : can not be measured. Voltages are taken with a VOM (Input impedance $10M\Omega$). 7 Voltage variations may be noted due to normal production (3) tolerances. G : German model. Q1621 RELAY DRIVE Q1611 -30V REG : Italian model. IT EE : East European model. Signal path. ⇒ : FM ₽D : CD : PHONO

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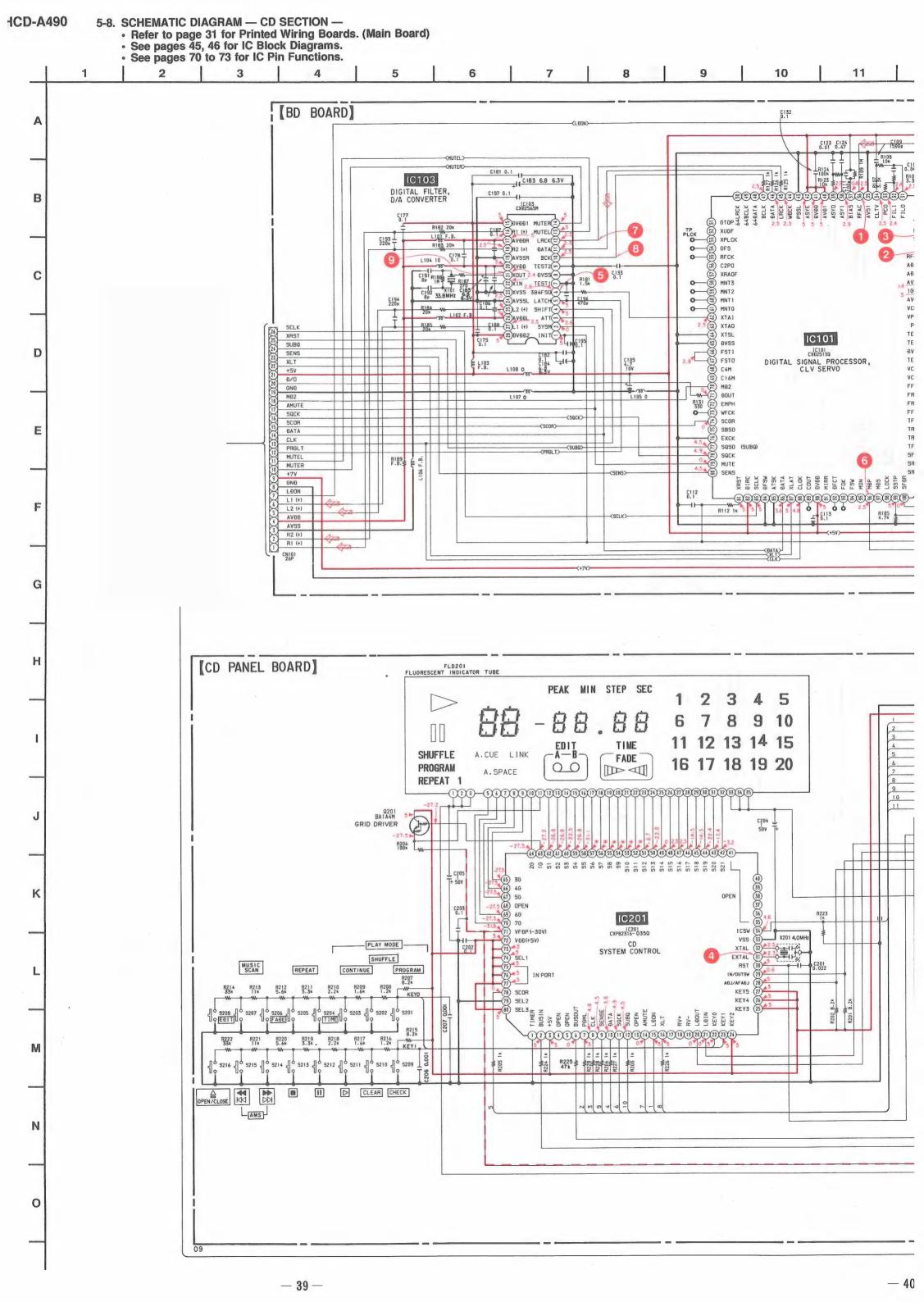
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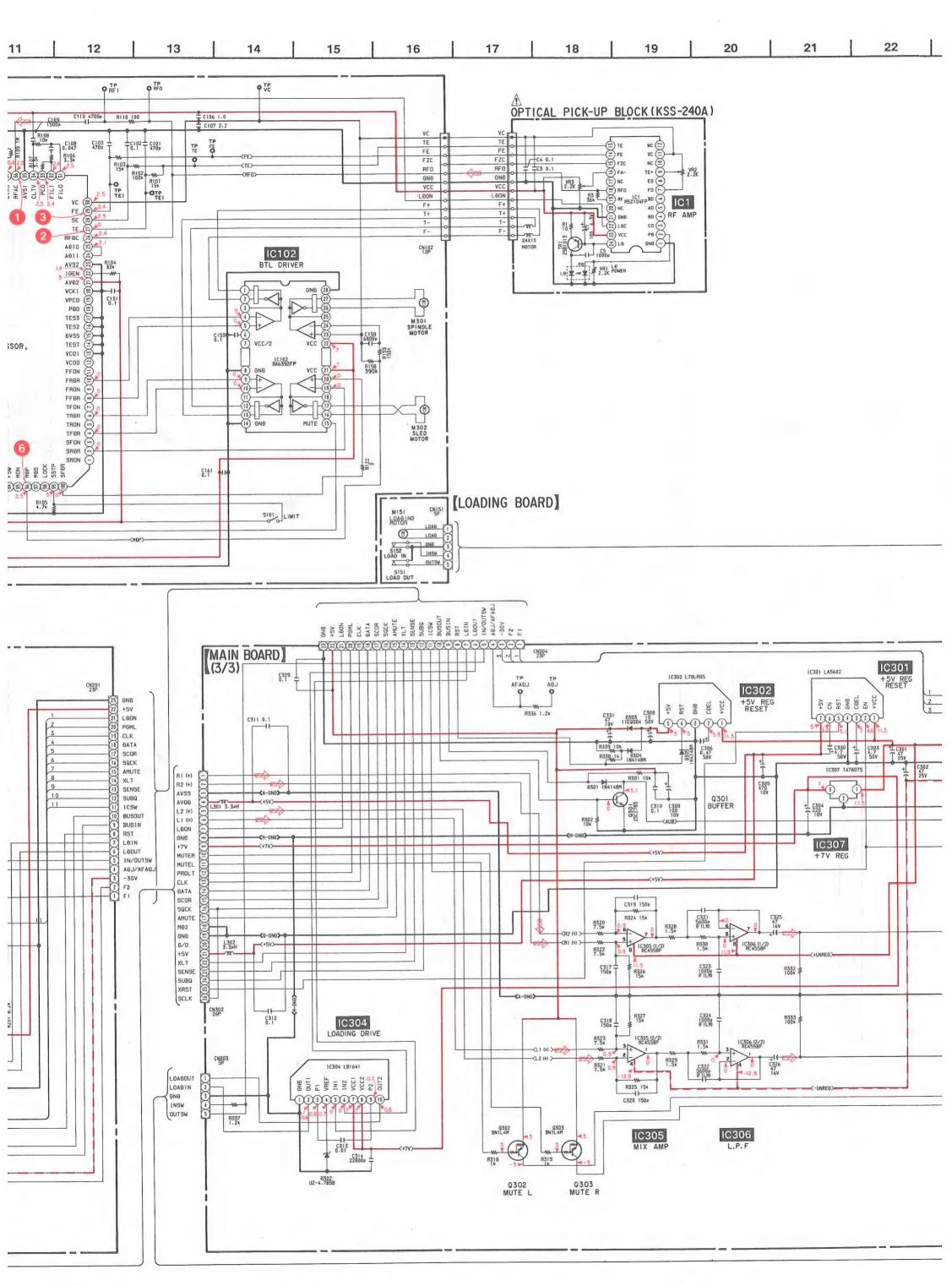
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25

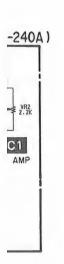
26

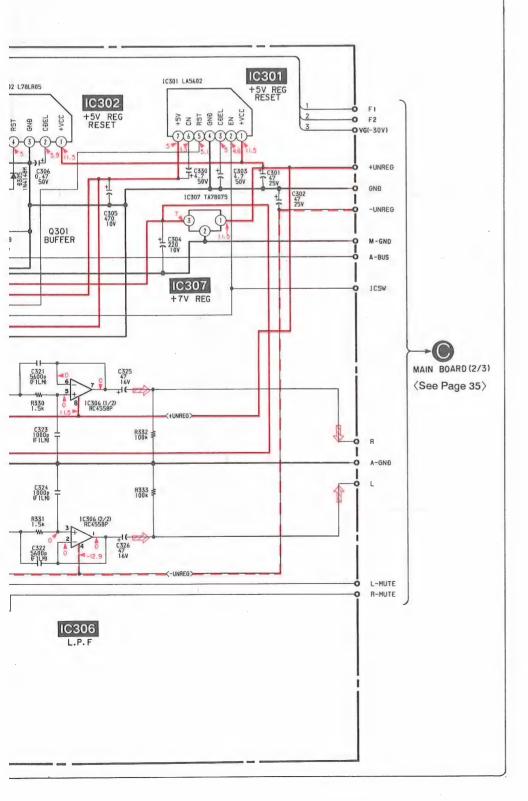
27

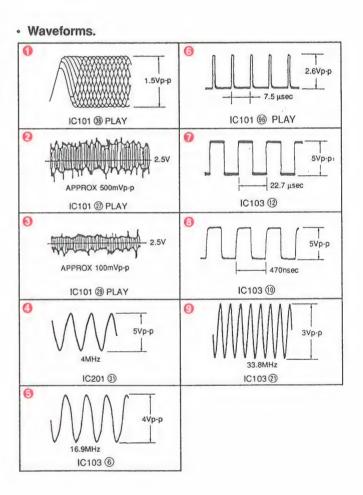




28 27 25 26 20 21 22 23 24







- All capacitors are in μF unless otherwise noted. pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- : panel designation.

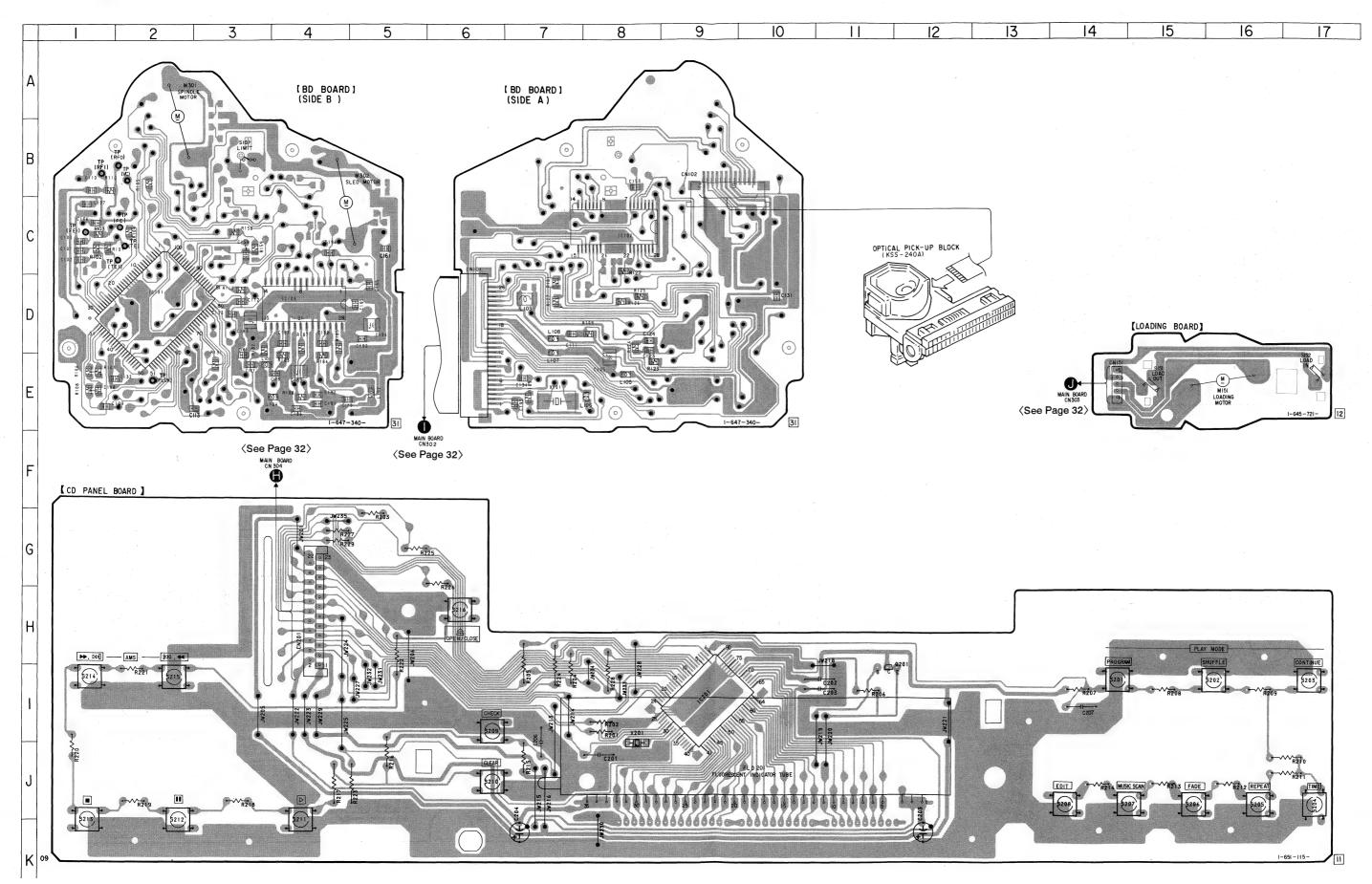
Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

- ---: B+ Line
- ----: B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark : CD PLAY

- * : can not be measured.
- Voltages are taken with a VOM (Input impedance $10M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- · Circled numbers refer to waveforms.
- Signal path. : CD

5-9. PRINTED WIRING BOARDS — CD SECTION — See page 12 for Circuit Boards Location. See pages 22, 23 for Semiconductor Lead Layouts.

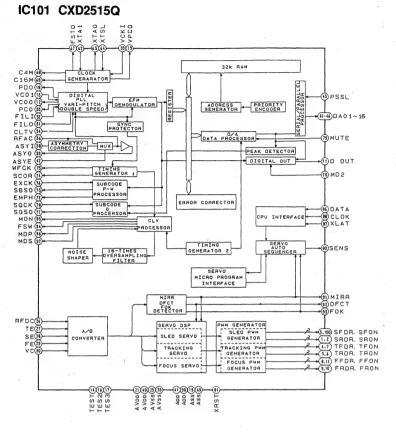


Ref. No. IC101 IC102 IC103 IC201 Q201

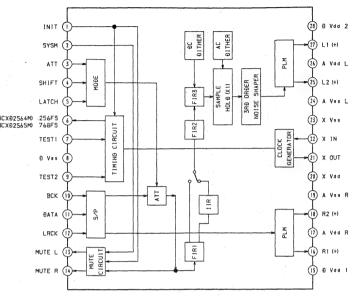
Semiconductor Location

Ref. No.	Location
IC101 IC102 IC103 IC201	D-2 C-8 D-4 I-9
Q201	I-12

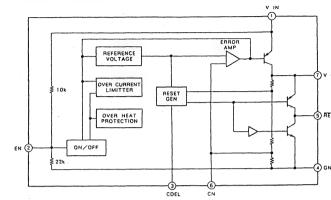
• IC Block Diagrams.



IC103 CXD2565M

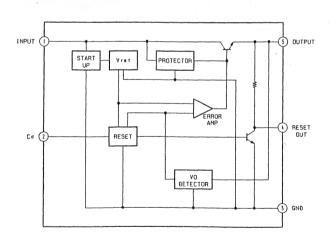


IC301 LA5602

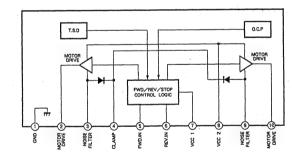


TIME

IC302 L78LR05



IC304 LB1641





: parts extracted from the component side.

: Through hole.

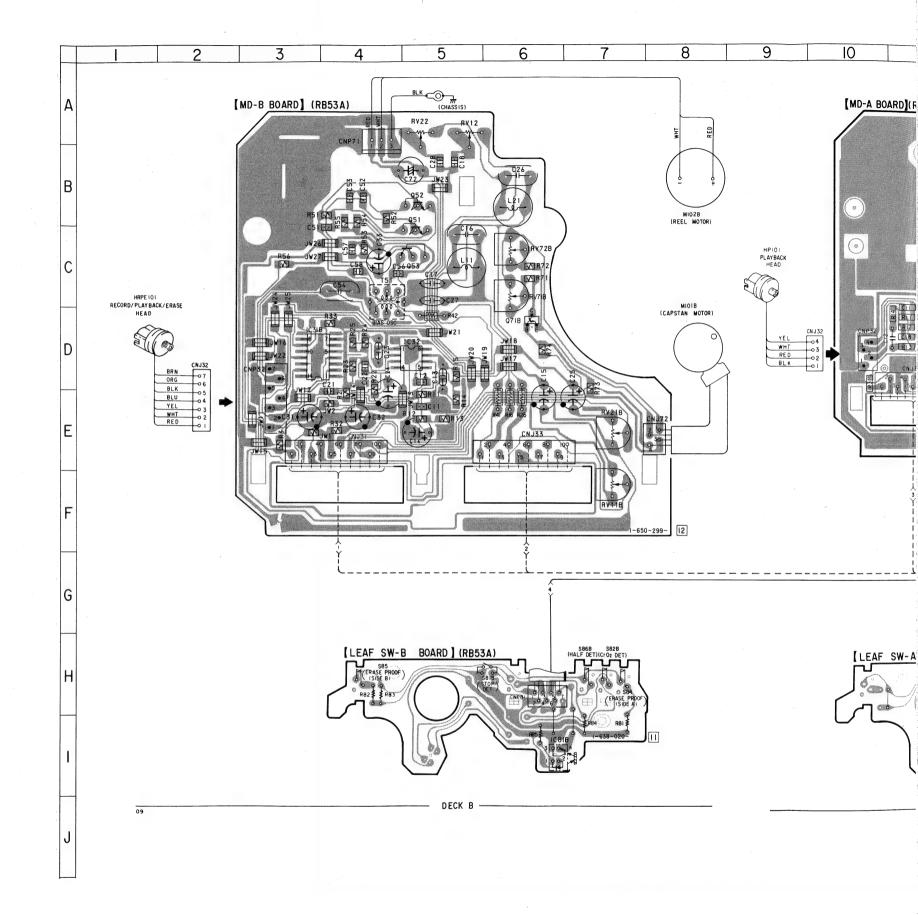
: Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

-46-

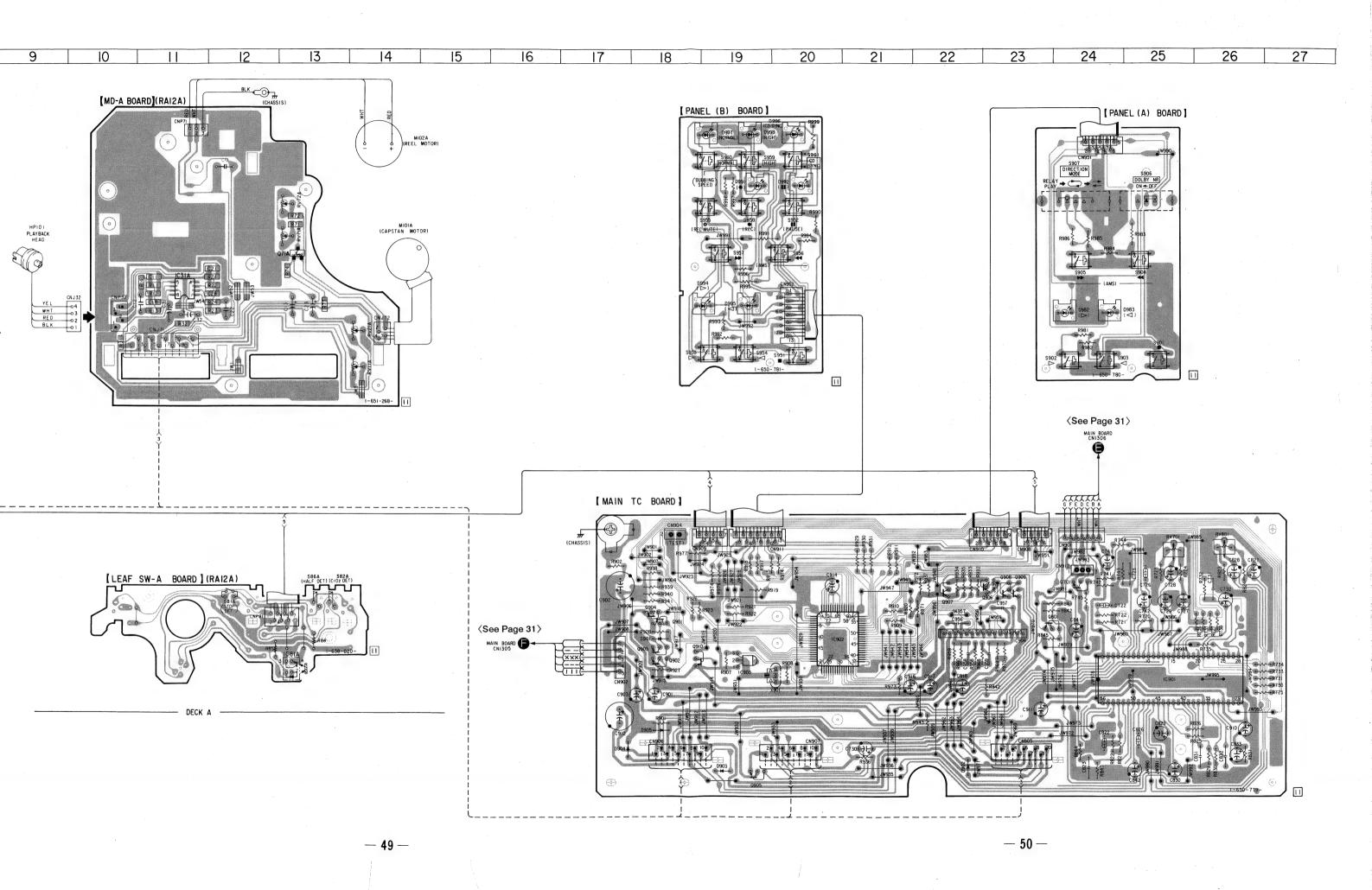
- 5-10. PRINTED WIRING BOARDS DECK SECTION —
 See page 12 for Circuit Boards Location.
 See pages 22, 23 for Semiconductor Lead Layouts.

Location

 Semiconductor 		
Ref. No.	Location	
D901 D902 D903 D904 D905 D982 D983 D991 D992 D994 D995 D997	I-18 K-22 K-19 J-17 J-18 D-24 D-24 B-19 B-20 D-19 D-19 B-19 B-19	
IC31A IC31B IC32 IC81A IC81B IC901 IC902 IC903 IC904	D-11 C-3 D-5 I-13 I-6 I-25 I-20 I-19 I-23	
Q51 Q52 Q53 Q71A Q71B Q701 Q801 Q901 Q903 Q904 Q905 Q906 Q907 Q908 Q909 Q910	C-5 B-5 C-5 C-13 D-6 H-24 H-23 H-18 I-18 H-18 K-19 H-22 H-22 H-23 I-18	

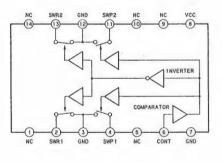


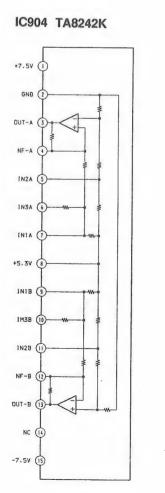
- parts extracted from the component side.
 indicates side identified with part number.
 Pattern from the side which enable seeing.



C Block Diagrams.

IC31B µPC1330GR





DECK A

ÉRASE HEAÐ

+5V

A R41

R42

A

NJL5165K

ROTATION DET -<ARM1> --<BRM3>-≺BRM1> CNP81
7P
STOP
GNB (STOP DET) (RB53A) BOARD ASTOR STOP=H> ≺A.120/70, 70U=L> ≺a.HALF. IN=L≻ IC81B -<A. SHUT, STOP=L>-NJL5165K ROTATION DET 70U <BSTOP> +57 IC81B ≺B.120/70>

09

M

N

0

1C904 TA8242K

-≺BHALF>-≺B5HUT>

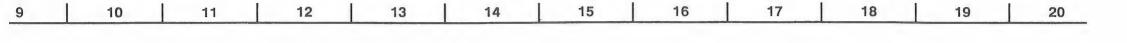
C958

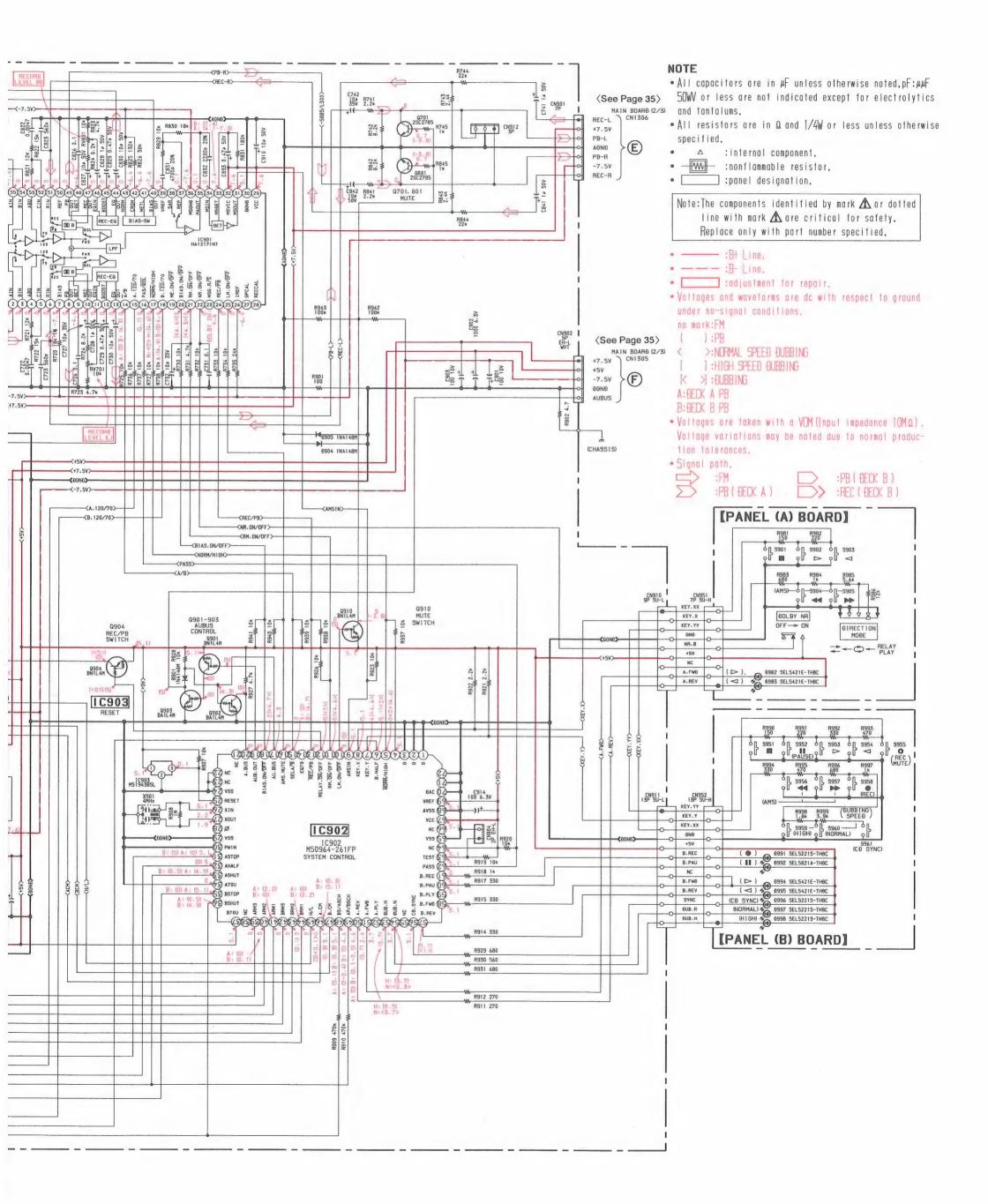
GNB 1017-A 1017-A 1017-A 1017-A 1017-A 1017-B 1

C959

≺ARM3>

-<ARM2>





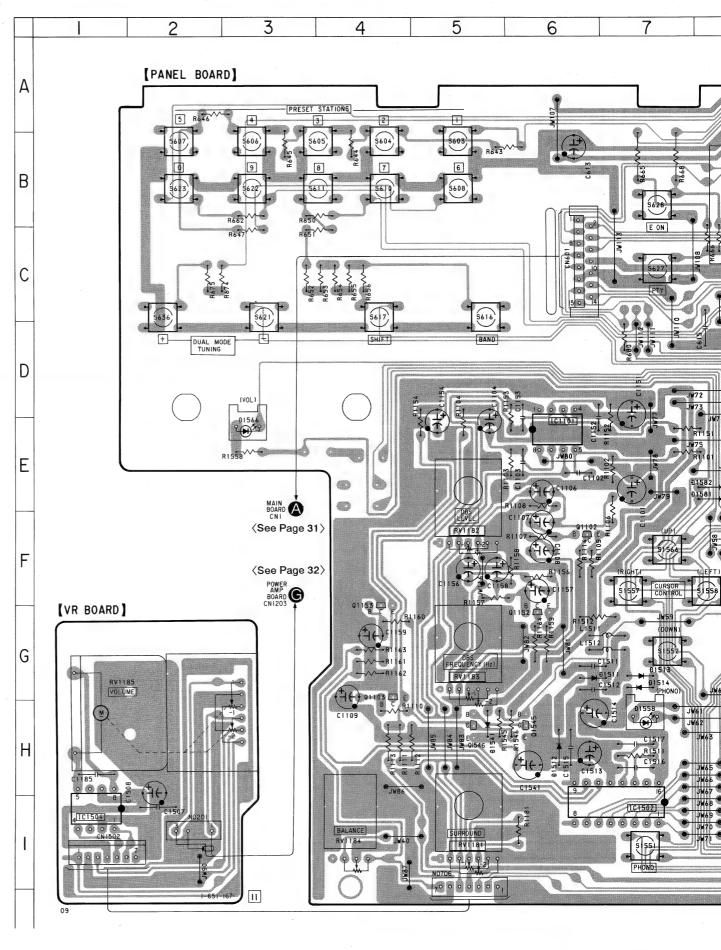
5-12. PRINTED WIRING BOARDS — PANEL (AEP, G, IT MODEL) SECTION — See page 12 for Circuit Boards Location. See pages 22, 23 for Semiconductor Lead Layouts.

 Semiconductor Loca 	tion
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Ref. No.	Location	Ref. No.	Location
D601	C-9	D1567	G-15
D602	C-9	D1581	E-8
D603	C-8	D1582	E-8
D604	C-12	D1583	F-11
D1511	G-6	D1584	F-11
D1512	H-6	D1585	F-12
D1513 D1514	G-7 G-7	D1586 D1587	F-12 F-12
D1514	G-7 F-8	D1587	F-12 F-12
D1522	G-10	D1309	F-12
D1523	G-10	IC601	B-10
D1532	G-9	IC602	C-13
D1533	G-8	IC1101	E-6
D1534	F-8	IC1501	F-11
D1535	F-9	IC1502	I-7
D1541	H-5	IC1503	G-9
D1551	1-8	IC1504	1-1
D1552	H-11	IC1505	I-13
D1553	H-9	IC1506	H-11
D1554	H-13	IC1507	1-9
D1555	H-11		
D1556	H-10	Q601	C-8
D1557	H-8	Q602	C-12
D1558	H-7	Q1102	F-6
D1559	F-18	Q1103	G-4
D1560	F-17	Q1152	G-6
D1561	F-16	Q1153	G-4
D1562 D1563	F-15	Q1521	F-8 F-9
D1563	F-14 G-17	Q1531 Q1545	H-6
D1565	G-17 G-16	Q1545 Q1546	H-5
D1566	E-3	Q1551	H-10
		4.00.	1

Note:

- parts extracted from the component side.
 Pattern from the side which enable seeing.
- : German model.
- IT : Italian model.



18 CURSOR CONTROL 51558

JN59

(50WN)

\$1552

01513

B1514

(PHONO)

JV65

UV42

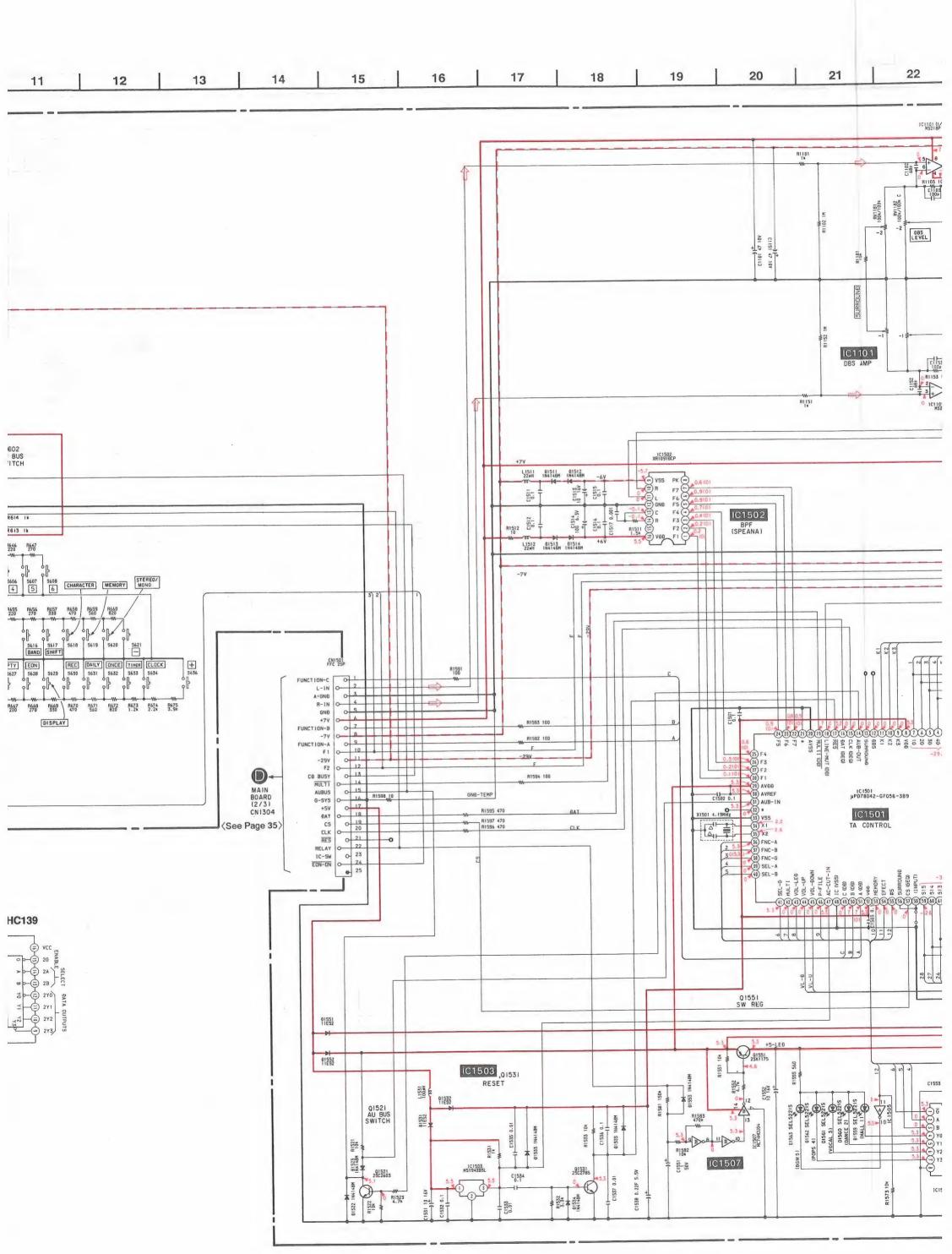
CUS17

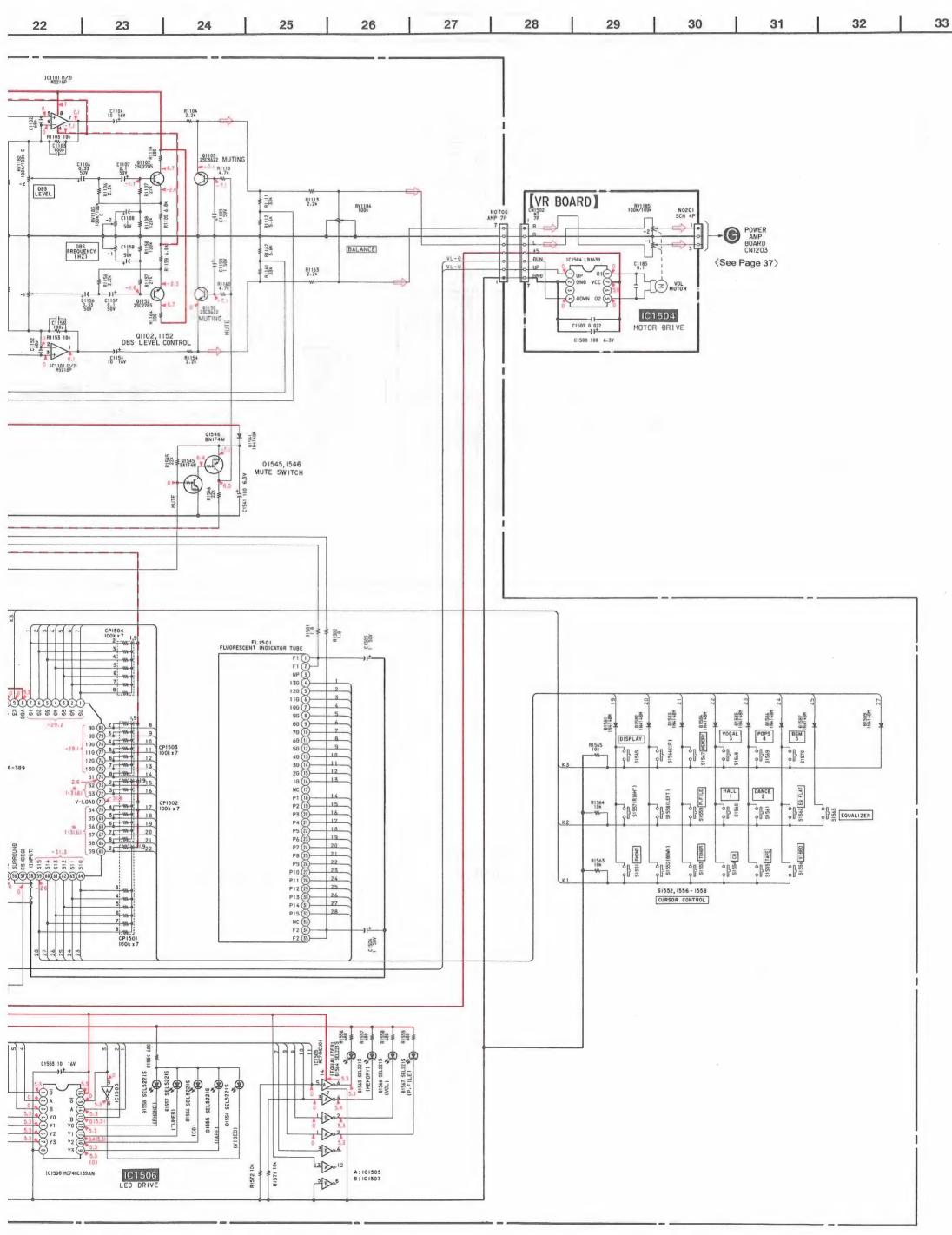
JV63 BGM 5 HALL | 1 | 51560 51561 \$1568 JW+6
JV17
JV18
JV19
JV20 B1564 91565 P (9) 70 91567 9 DISPLAY S1562 EQ FLAT S1559 P. FILE 51567 MEMORY 51563 JW21 - JW22 - JW23 91556 9 9 9 MAIN BOARD CN1304 $\langle \text{See Page 31} \rangle$ \$1553 TUNER 11 1-651-165-

5-13. SCHEMATIC DIAGRAM — PANEL (AEP, G, IT MODEL) SECTION — See pages 74, 75 and 80, 81 for IC Pin Functions. 6 7 8 9 10 11 1: [PANEL BOARD] A FLUORESCENT INDICATOR TUBE B -45678900123 (17(18(19)(20)(21)(22)(23)(24)(25)(26)(27)(28)(29)(30)(31)(32)—(34)(35)-C R638 100K*4 -28.8 3 14 -28.8 3 14 -28.9 3 12 -28.9 4 17 -28.9 4 17 -28.9 5 19 -28.9 6 17 -28.9 6 17 -28.9 7 10 -28.9 D AEP, G MODEL PLL LATCH OUT PLL ĐATA IN R603 1 PLL CLOCK OUT W R604 1x W 8605 1K 12) RBS-RES 13) LATCH 14) CLOCK 15) DATA DI ROS-RESET R624 TUNEĐ 200 (See Page 28) ATCH CLOCK DATA DUT | 1 | 1 | 2 | 474 IN | 5.3 | 5.2 | 17 | RESET | | 5.3 | 18 | TUNED | 3 | 19 | STERED | 21 | A/P STEREO R679 1k C609 ₹ 22°; IC601 RELAY MUT T 6615 SYSTEM CONTROL +6V RESET R680 1k AUB-OUT MAIN BOARD (1/3) CNI GNĐ INTPO 47 W 8681 1K RĐS RESET OUT SIRCS 45 RĐS ĐẠTA START RÐS ÐATA IN RÐS CLOCK IN W R611 1K ROS-START (44) CO-BUSY (43) F CNP60 15p R682 10k S605 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 S601 S602 S603 POWER SLEEP 1 5606 4 S607 5608 CHARACTER C608 8p CH 224014 G R649 R650 R651 120 R654 5610 8 9 5622 0 5623 NEXT PTY EON 5629 5627 5628 9630 9601 11ES2 H 8602 IN4148M R663 120 0.22 R664 R665 150 R668 270 R669 330 R670 470 R671 560 R666 180 R667 220 R621 IC602 GP1U52 DISPLAY R619 47k + 16611v OUT IC602 Q601 2SC2785 Q601 RESET REMOTE CONTROL RECIEVER R620 22k J · IC Block Diagrams. All capacitors are in μF unless otherwise noted. $pF:\mu\mu F$ IC1504 LB1639 IC1506 MC74HC139 IC1502 XR1091DCP K 50WV or less are not indicated except for electrolytics and 63Hz SELECT IN COLUMN TO THE SELECT • All resistors are in $\boldsymbol{\Omega}$ and 1/4W or less unless otherwise 9 2G A FILTER specified. 2A SELECT 2B 2Y0 9 △ : internal component. 160Hz BANO-PASS • _____: panel designation. (5) CLK/2 OUT 160 (2 INPUT LOGIC FILTER Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. L 2 3 400Hz GND V CONT INS BAND-PASS -(14) CLK R Replace only with part number specified. FILTER CLOCK IKHz BAND-PASS (13) CLK C OUT IK (4 · Voltage and waveforms are dc with respect to ground FILTER under no-signal conditions. no mark: FM 2.5KHz M BAND-PASS (12) GNB OUT 2.5K (5 () : TAPE : can not be measured. Voltages are taken with a VOM (Input impedance $10M\Omega$). 6.3KHz -(11) L IN OUT 6.3K BAND-PASS Voltage variations may be noted due to normal production FILTER tolerances. G : German model. 16KHz BAND-PASS LOW-PASS FILTER Σ : Italian model. N FILTER · Signal path. ⇒ : FM 3 vss Σ 0

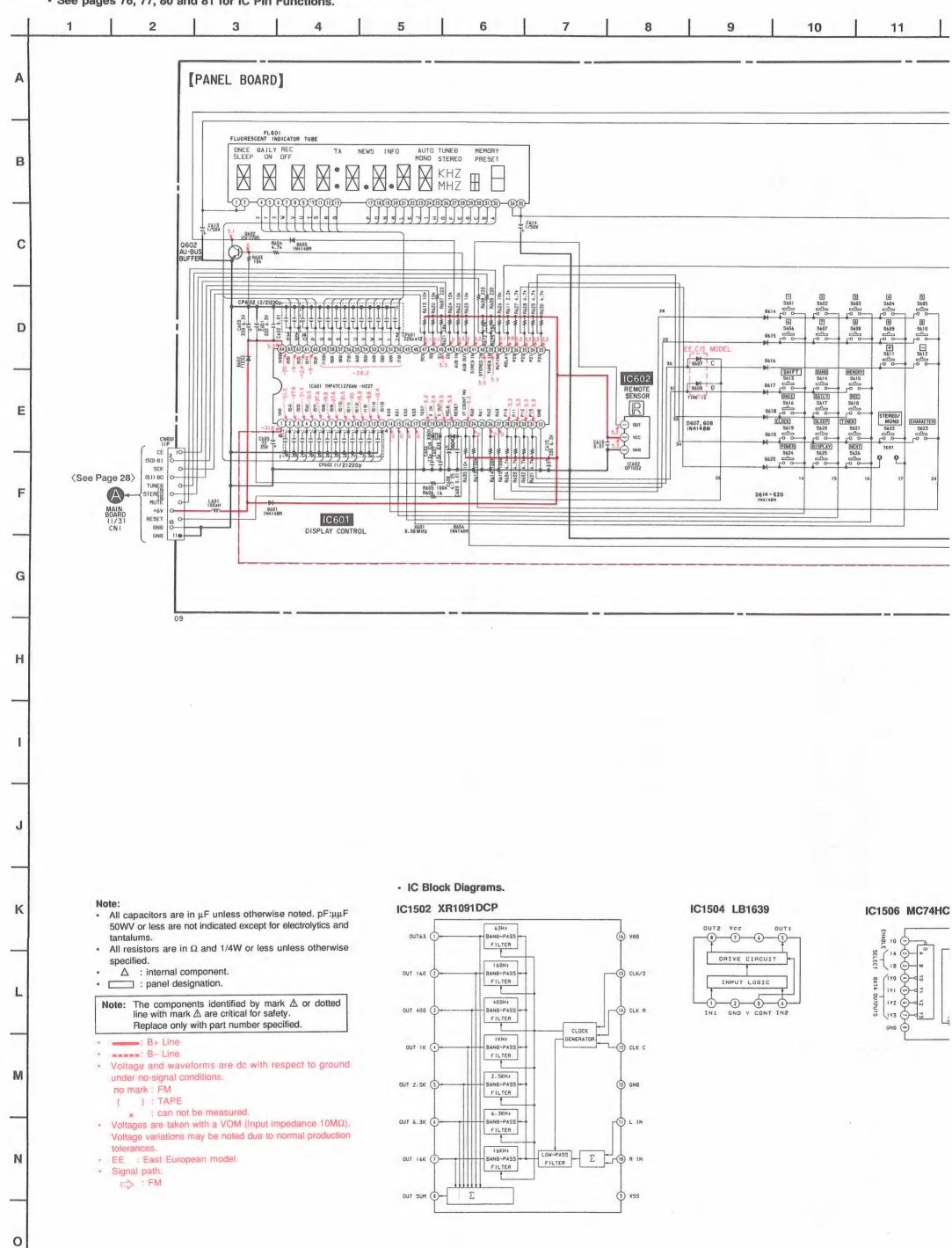
-58 -

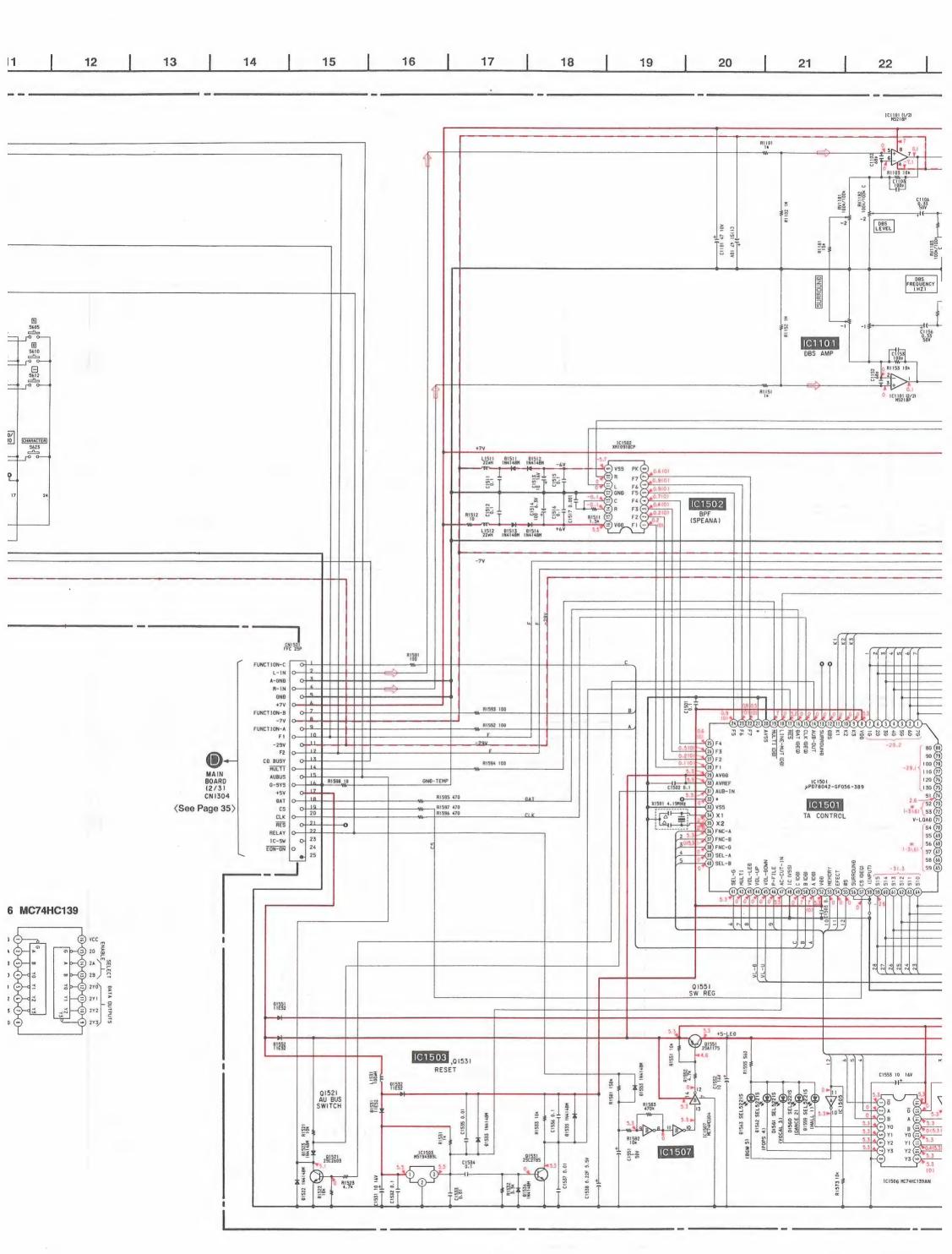
— 57 —

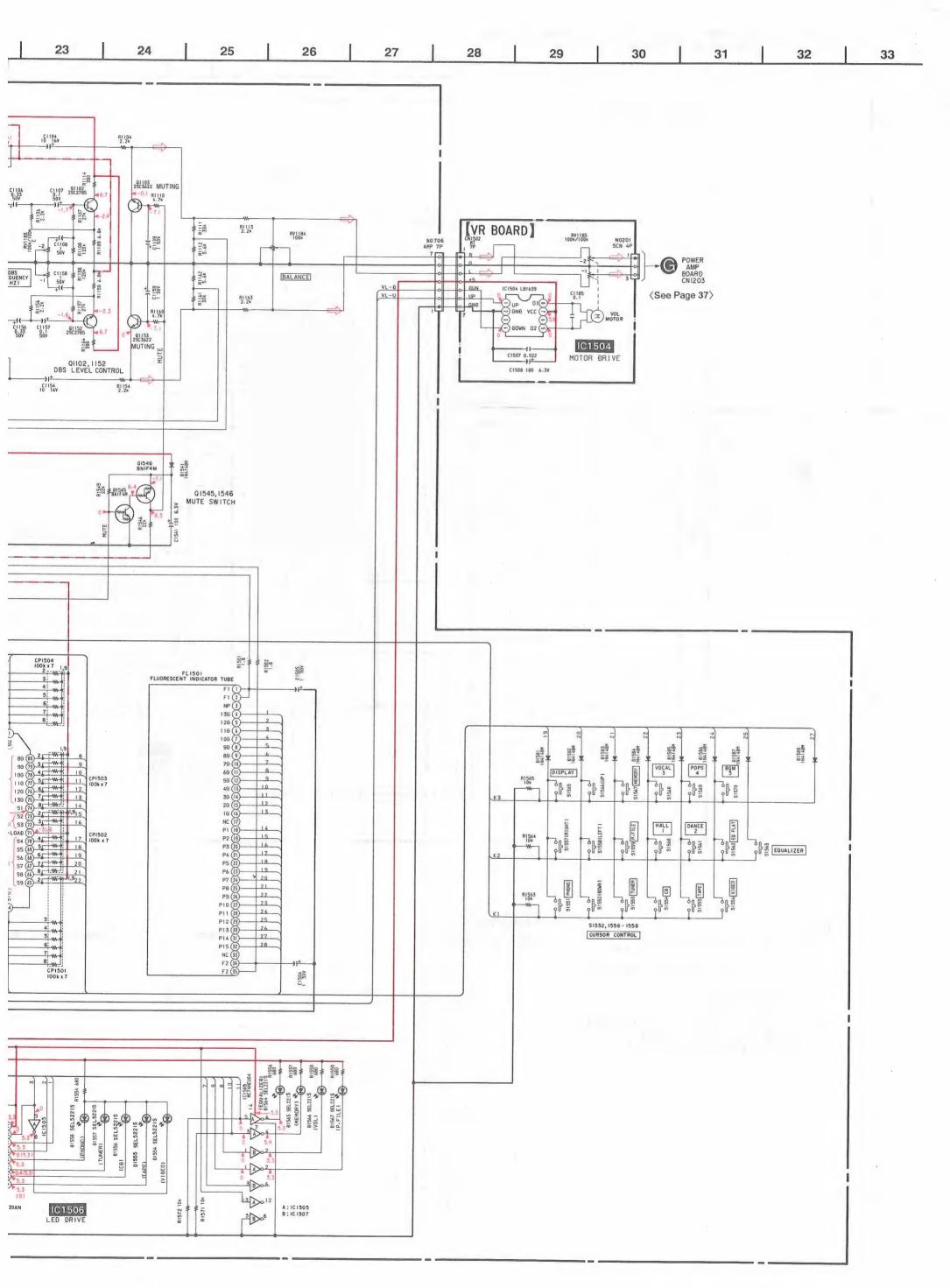




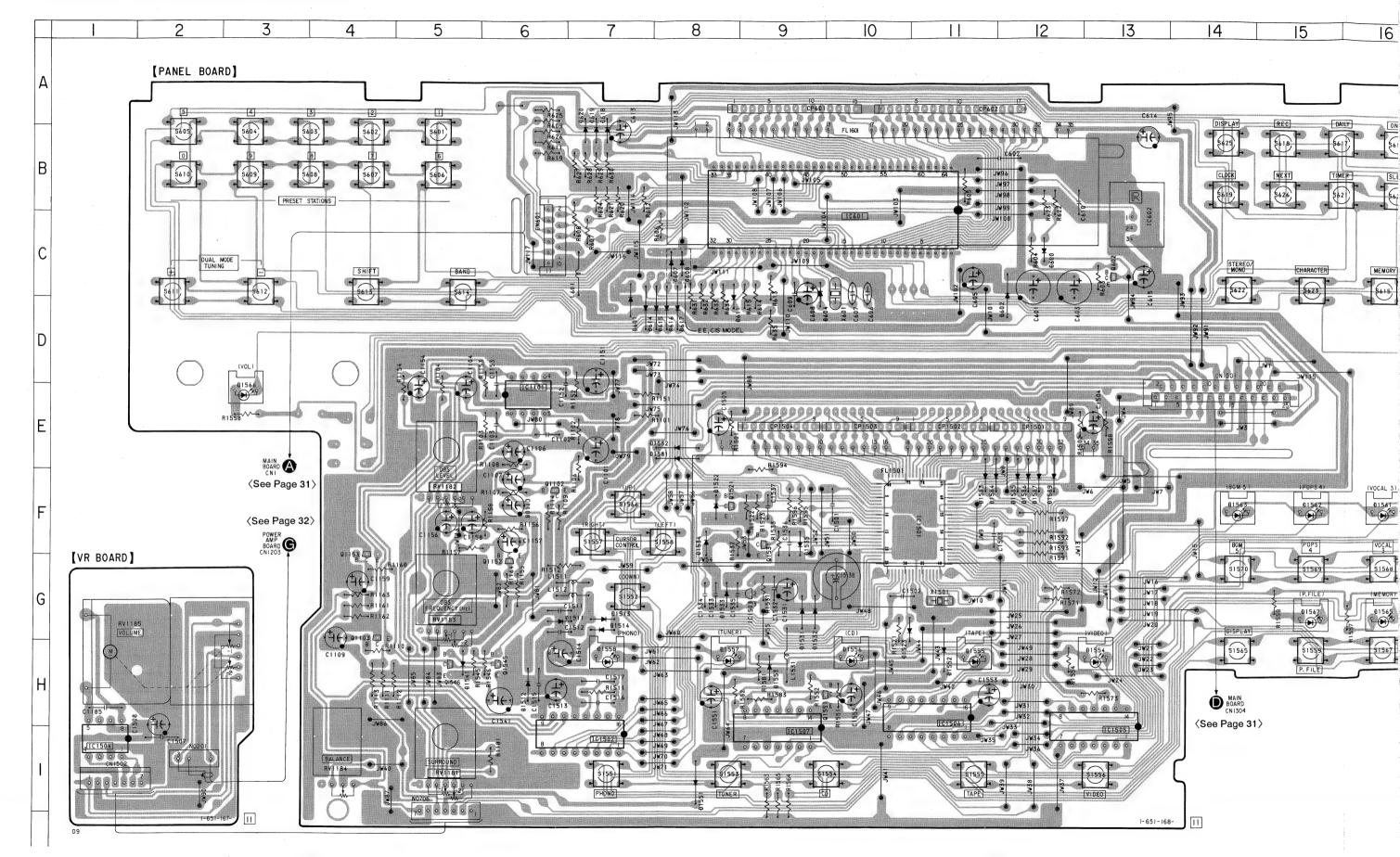
5-14. SCHEMATIC DIAGRAM — PANEL (UK, EE, CIS MODEL) SECTION — • See pages 76, 77, 80 and 81 for IC Pin Functions.

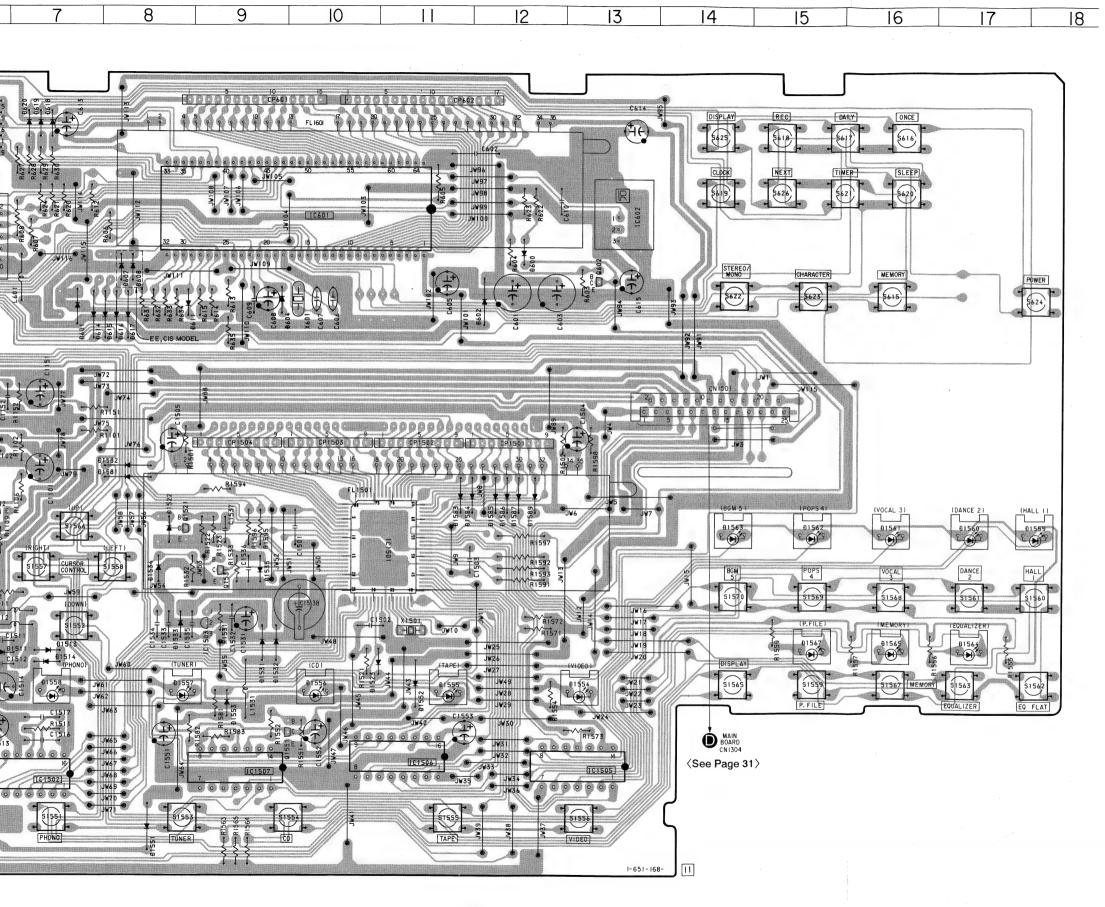






5-15. PRINTED WIRING BOARDS — PANEL (AEP, IT, G MODEL) SECTION — See page 12 for Circuit Boards Location. See pages 22, 23 for Semiconductor Lead Layouts.





Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D600 D601 D602 D604 D607 D608 D614 D615 D616 D617 D618 D619 D620 D1511 D1512 D1513 D1514 D1522 D1523 D1531 D1532 D1533 D1534 D1535 D1541 D1555 D1556 D1557 D1558 D1559 D1560 D1561	C-12 D-7 D-12 D-9 C-8 D-7 D-8 D-8 D-8 D-8 A-7 A-7 G-6 G-7 G-9 G-9 G-9 G-8 F-9 H-5 I-8 H-11 H-13 H-11 H-13 H-17 F-16	D1562 D1563 D1564 D1565 D1566 D1567 D1581 D1582 D1588 D1588 D1588 D1588 D1589 IC602 IC1101 IC1502 IC1503 IC1504 IC1505 IC1506 IC1507 Q602 Q1102 Q1103 Q1152 Q1103 Q1152 Q11531 Q1545 Q1546 Q1551	F-15 F-14 G-16 E-3 G-15 E-8 E-8 F-11 F-12 F-12 F-12 F-12 F-12 F-12 F-13 E-6 I-7 G-9 I-1 I-13 H-9 C-13 G-4 G-4 F-9 H-6 H-5 H-10

Note:

- o____ : parts extracted from the component side.
- Pattern from the side which enable seeing.
- EE : East European model.

5-16. IC PIN FUNCTIONS

• IC101 (CXD2515Q)

No.	Pin Name	1/0	Description
1	SRON	0	Sled drive output
2	SRDR	0	Sled drive output
` 3	SFON	0	Sled drive output
4	TFDR	0	Tracking drive output
5	TRON	0	Tracking drive output
6	TRDR	0	Tracking drive output
7	TFON	0	Tracking drive output
8	FFDR	0	Focus drive output
9	FRON	0	Focus drive output
10	FRDR	0	Focus drive output
11	FFON	0	Focus drive output
12	VCOO	0	VCO output for analog EFM PLL
13	VCOI	I	VCO output for analog EFM PLL
14	TEST	I	TEST pin connected normally to GND
15	DVss	_	Digital GND
16	TES2	I	TEST pin connected normally to GND
17	TES3	I	TEST pin connected normally to GND
18	PDO	0	Charge-pump output for analog EFM PLL
19	VPCO	0	Charge-pump output for variable pitch PLL
20	VCKI	. I	Clock input from variable pitch external VCO
21	AVD2		Analog power supply
22	IGEN	I	Power supply pin for operational amplifiers
23	AVS2		Analog GND
24	ADII	I	Input pin for A/D converter
25	ADIO	0	Operational amplifier output pin
26	RFDC	I	RF signal input
27	TE	I	Tracking error signal input
28	SE	I	Sled error signal input
29	FE	I	Focus error signal input
30	VC	I	Center voltage input pin
31	FILO	0	Filter output for master PLL
32	FILI	I	Filter input for master PLL
33	PCO	0	Charge-pump output for master PLL
34	CLTV	I	Control voltage input for master VCO
35	AVS1		Analog GND
36	RFAC	I	EFM signal input
37	BIAS	I	Asymmetry circuit constant current input
38	ASYI	I	Asymmetry comparate voltage input
39	ASYO	0	EFM full swing output
40	AVD1	_	Analog power supply
41	DVnn		Digital power supply
42	ASYE	: I	Asymmetry circuit ON/OFF
43	PSSL	I	Audio data output mode selection input
44	WDCK	0	48-bit slot D/A interface. Word clock

No.	Pin Name	1/0	Description
45	LRCK	0	48-bit slot D/A interface. LR clock
46	DATA	0	DA 16 output when PSSL = 1. 48-bit slot serial data when PSSL = 0
47	BCLK	0	DA 15 output when PSSL = 1. 48-bit slot data when PSSL = 0
48	64DATA	0	DA 14 output when PSSL = 1. 64-bit slot data when PSSL = 0
49	64BCLK	0	DA 13 output when PSSL = 1. 64-bit slot data when PSSL = 0
50	64LRCK	0	DA 12 output when PSSL = 1. 64-bit slot data when PSSL = 0
-51	GTOP	0	DA 11 output when PSSL = 1. GTOP output when PSSL = 0
52	XUGF	0	DA 10 output when PSSL = 1. XUGF output when PSSL = 0
53	XPLCK	0	DA 09 output when PSSL = 1. XPLCK output when PSSL = 0
54	GFS	0	DA 08 output when PSSL = 1. GFS output when PSSL = 0
55	PFCK	0	DA 07 output when PSSL = 1. RFCK output when PSSL = 0
56	C2PO	0	DA 06 output when $PSSL = 1$. $C2PO$ output when $PSSL = 0$
57	XRAOF	0	DA 05 output when PSSL = 1. XRAOF output when PSSL = 0
58	MNT3	0	DA 04 output when PSSL = 1. MNT3 output when PSSL = 0
59	MNT2	0	DA 03 output when PSSL = 1. MNT2 output when PSSL = 0
60	MNT1	0	DA 02 output when PSSL = 1. MNT1 output when PSSL = 0
61	MNT0	0	DA 01 output when PSSL = 1. MNTO output when PSSL = 0
62	XTAI	I	X'tal oscillator circuit input
63	XTAO	0	X'tal oscillator circuit output
64	XTSL	I	X'tal selection input pin
65	DVss	_	Digital GND
66	FSTI	I	2/3 divider output of pins 62,63
67	FSTO	0	2/3 divider output of pins 62,63
68	C4M	0	4.2336MHz output
69	C16M	0	16.9344MHz output
70	MD2	I	Digital-out ON/OFF control pin
71	DOUT	0	Digital-out output pin
72	ЕМРН	0	Playback disc output in emphasis mode
73	WFCK	0	WFCK output
74	SCOR	0 ;	Sub-code sync output
75	SBSO	0	Sub-P through Sub-W serial output
76	EXCK	I	Clock input for SBSO read-out
77	SUBQ	0	Sub-Q 80-bit output
78	SQCK	I	Clock input for SQSO read-out
79	MUTE	I	Muting selection pin
80	SENS	0	SENS output
81	XRST	I	System reset
82	DIRC	I	Used in 1-track jump mode
83	SCLK	I	SENS serial data read-out clock
84	DFSW	I	DFCT selection pin
85	ATSK	I	Input pin for anti-shock
86	DATA	I	Serial data input, supplied from CPU
87	XLAT	I	Latch input, supplied from CPU
88	CLOK	I	Serial data transfer clock input, supplied from CPU

No.	Pin Name	1/0	Description
89	COUT	0	Numbers of track counted signal output
90	DVDD	1-1	Digital power supply
91	MIRR	0	Mirror signal output
92	DFCT	0	Defect signal output
93	FOK	0	Focus OK output
94	FSW	0	Output to select spindle motor output filter
95	MON	0	Output to control ON/OFF of spindle motor
96	MDP	0	Output to control spindle motor servo
97	MDS	0	Output to control spindle motor servo
98	LOCK	0	GFS is sampled by 460Hz. H when GFS is H.
99	SSTP	I	Input signal to detect disc inner most track
100	SFDR	0	Sled drive output

· IC103 (CXD2565M)

No.	Pin Name	1/0	Description
1	INIT	I	Re-synchronizing at rise-up edge of this signal
2	SYSM	I	System muting input
3	ATT	I	Attenuation data input
4	SHIFT	I	Shift clock input
5.	LATCH	I	Latch clock input
6	384FSO	0	384fs clock output
7	TEST1	I	Test pin. Fixed to "L" level during normal operation.
8	DVss		Digital GND
9	TEST2	I	Test pin. Fixed to "L" level during normal operation.
10	BCK	I	BCK input
: 11	DATA	I	Data input
12	LRCK	· I	LRCK input
13	MUTEL	0	L-ch muting flag output
14	MUTER	0	R-ch muting flag output
15	DV _{DD} 1	7	Digital power supply
16	R1 (+)	0	R-ch PLM output-1 (positive phase)
17	AVDDR		L-ch analog power supply
18	R2 (+)	0	R-ch PLM output-2 (positive phase)
19	AVssR		L-ch analog GND
20	XV _{DD}		Master clock power supply
21	XOUT	0	X'tal oscillator output (33.8MHz)
22	XIN	I	X'tal oscillator input (33.8MHz)
23	XVss		Master clock GND
24	AVssL	-	L-ch analog GND
25	L2 (+)	0	L-ch PLM output-2 (positive phase)
26	AVDDL	_	L-ch analog power supply
27	L1 (+)	0	L-ch PLM output-1 (positive phase)
28	DV _{DD} 2	-	Digital power supply

• IC201 (CXP82316-035Q)

Pin No.	Pin Name	I/O	Function
1	TIMER	_	Connected to GND.
2	BUSIN	I	Audio bus input.
3	+5V	_	Connected to +5V.
4	OPEN	_	No.
5	OPEN	_	Not used. (open)
6	BUS OUT	0	Audio bus output.
7	PGML	0	Latch signal output to digital filter (IC103).
8	CLK	0	Serial clock output.
9	SENSE	I	SENSE signal input.
10	DATA	0	Serial data output.
11	SQCK	0	Read out clock output for subcode Q data.
12	SUBQ	I	Subcode Q data input.
13	OPEN		Not used. (open)
14	AMUTE	0	Analog muting control signal output.
15	LDON	0	Optical pickup laser diode control output.
16	XLT	0	Serial data latch signal output.
17		_	Not used. (open)
18	RV+	0	Remote commander volume +.
19	RV-	0	Remote commander volume
20	LDOUT	0	Loading motor control signal output.
21	LDIN	0	Loading motor control signar output.
22	KEY0	I	
23	KEY1	I	Key input. (0201 to 0210)
24 to 27	KEY2 to KEY5	_ -	Connected to +5V.
28	ADJ/AFADJ		ADJ, AFJ test pin.
29	IN/OUTSW	I	Loading IN/OUT switch input.
30	RST	1	Reset signal input.
31	EXTAL	I	Clock input. (4 MHz)
32	XTAL	0	Clock output. (4 MHz)
33	Vss		GND
34	ICSW	0	CD power supply control pin.
35 to 41	OPEN		Not used. (open)
42 to 62	SEG1 to SEG21	0	FL segment output.
63 to 67	1G to 5G	0	FL grid output.
68	OPEN		Not used. (open)
69	6G	0	FL grid output.
70	7G	0	J - 5 000 000 par.
71	VFDP (-30V)	-	-30V pin for FL display tube.
72	VDD (+5V)		} +5V pin.
.73		-	J
74	SEL1		
75	IN PORT		Connected to +5 V.
76	IN PORT		Connected to To V.
77	IN PORT)
78	SCOR	I	Read out timing signal input for subcode Q data.
79	SEL2		Connected to GND.
80	SEL3	-	Connected to +5 V.

• IC601 System Control (μPD78043GF-079 (054)-3B9) (AEP, G, IT Model)

Pin No.	Pin Name	I/O	Function
1	Т6	0	
2	T5	0	
3	T4	0	
4	Т3	0	FL tube digit output
5	T2	0	
6	TI	0	
7	то	0]
8	VDD	_	System power supply (+5V)
9	RDS CLOCK	I	RDS clock input
10		I	Nut used. (Connected to GND)
11	RDS DATA	. I	RDS data input
12	RDS RESET	0	RDS reset output
13	LATCH	0	PLL latch output
14	CLOCK	0	PLL clock output
15	DATA OUT	0	PLL data output
16	DATA IN	I	PLL data (IF count) input
17	RESET	ı	System reset input
18	TUNED	1	Tuned (Auto stop) input
19	STEREO	I	Stereo input
20	A/D GND	_	Ground for A/D converter
21		I)
22	_	I	
23		1	Not used. (Connected to GND)
24		1	
25	_	I	
26	KEY IN	1	
27	KEY IN	I	\rightarrow Key intput
28	KEY IN	· I	
29	A/D +5V	-	Analog power supply for A/D converter (+5V)
30	A/D REF +5V	_	Reference voltage input for A/D converter (+5V)
31	_	I	Not used. (Connected to GND)
32	_	_	Not used. (open)
33	SYS GND	-	System ground terminal
34	X1	I	Main system clock (4.194304 MHz)
35	X2	0	Main system clock
36	RDS EON OUT	0	RDS EON output
37	F MONI	0	F monitor output (2048 Hz)
38		I	1
39		. I	Not used. (Connected to GND)
40		I	

Pin No.	Pin Name	1/0	Function
41	_	1	
42	_	1	Not used. (Connected to GND)
43	CD BUSY	i	CD busy input
44	RDS START	1	RDS data start input
45	SIRCS	1	SIRCS input
46	AUB IN	I	AUB input
47	INTP0	I	Power failure detection input
48	GND	—	Internal connection (Connected to GND)
49	AUB OUT	0	AUB output
50	MUTING	0	Muting output (Tuner)
51	RELAY	0	Relay output (Power)
52	VDD	-	System power supply (+5V)
53		I	
54	_	I	Not used. (Connected to GND)
55	_	1	
56	EON	I	Initial setting input (EON)
57	DIMMER	I	Initial setting input (EON active)
58	AUTO TUN	1	Initial setting input (AUTO TUN)
59	VERSION	1	
60	VERSION	1	Initial setting input (the distination)
61	S15	0	
62	S14	0	
63	S13	0	
64	S12	0	
65	S11	0	
66	S10	0	FL tube segment output
67	S9	0	
68	S8	0	
69	S7	0	
70	S6	0	
71	-30V	1-1	Negative power supply for the FL tube
72	S 5	0	Serve South Supply for the LE time
73	S4	0	
74	S3	0	
	S2	0	FL tube segment output
	S1	0	
	S0	0	
	T9	0	
	T8	0	FL tube digit output
	Γ7	0	A 1 17 mag alkit authat

• IC601 System Control (TMP47C1270AN-H227) (UK, EE, CIS Model)

Pin No.	Pin Name	1/0	Function
1	VKK	_	-29V power supply for driving fluorescent display.
2	S15	0	
3	S14	0	
4	S13	0	
5	S12	0	
6	S11	0	
7	S10	0	Phonocont display delvies
8	S9	0	Fluorescent display driving
9	S8	0.	
10	S7	0	
11	S6	0	
12	S5	0	
13	S4	0]}
14	K00	I	
15	K01	I	
16	K02	I	Key input
17	K03	I	
18	TEST		Test terminal
19	XIN	1	2 - 1 - (0 20202011)
20	X OUT	0	System clock (8.388608 Hz) connected to crystal oscillator.
21	RESET	I	System reset input
22	HOLD	I	
23		-	IF count NG (F monitor) output
24	R60	I	Key input
25	_		Not used
26	R62	I	
27	R63	ı	Diode input
28	P10	0	
29	P11	0	
30	P12	0	Key output
31	P13	0	1)
32	GND	_	GND
33	P20	0	
34	P21	0	
35	P22	0	1)
36	_	<u> </u>	Not used
37	RELAY	0	RELAY output
38	MUTING	0	MUTING output
39	TUNED IN	ı	TUNED input
40	STEREO IN	I	STEREO input

Pin No.	Pin Name	I/O	Function
41	SIRCS	I	SIRCS input
42	AUB OUT	0	Audio bus output
43	AUB IN	I	Audio bus input
44	CE	0	Chip select to tuner PLL IC (LC7218)
45	SI	I	Serial data from tuner PLL IC (LC7218)
46	SO	0	Serial data to tuner PLL IC (LC7218)
47	SCK	0	Serial clock to tuner PLL IC (LC7218)
48	_	_	Not used
49		_) Not used
50	1G	0	
51	2G	0	
52	3G	0	
53	4G	0	
54	5G	0	
55	6G	0	
56	7G	0	Fluorescent display driving
57	8G	0	- Indirection display diving
58	9G	0	
59	10G	0	
60	S0	0	
61	S1	0	
62	S2	0	
63	S3	0	J
64	VDD	_	+5V power supply

Pin No.	Pin Name	I/O	Function	at a d
41	SIRCS	I	SIRCS input	
42	AUB OUT	0	Audio bus output	
43	AUB IN	1	Audio bus input	
44	CE	0	Chip select to tuner PLL IC (LC7218)	
45	SI	I	Serial data from tuner PLL IC (LC7218)	
46	SO	0	Serial data to tuner PLL IC (LC7218)	
47	SCK	0	Serial clock to tuner PLL IC (LC7218)	
48			Not used	
49		-	S Not used	
50	1G	0		
51	2G	0		Mr. g.
52	3G	0		*
53	4G	0		8
54	5G	0		
55	6G	. O		:
56	7G	0	Plusanes dia la division	
57	8G	0	Fluorescent display driving	
58	9G	0		
59	10G	0		
60	S0	0		
61	S1	0		
62	S2	0		
63	S3	0	J	
64	V _{DD}	_ 孝	+5V power supply	

• IC902 Deck Controller (M50964-261FP)

Pin No.	Pin Name	1/0	Function
1	G	_	
2	G	-	GND
3	G	-	
4		-	+5V
5	NORM/HIGH	-	Tape speed "H"=High speed "L"=Normal speed
		7	Deck B record prevention claw A, B detection input (Analog)
			Voltage (V) 1V 1.9V 2.8V 3.9V 5V
6	B HALF	1	Half ON ON ON OFF
			E. PROOF A OFF ON OFF ON OFF
			E. PROOF B ON ON OFF OFF OFF
		١.	KEY input
7	KEY Y	I	Voltage (V) 0 0.3 0.7 1.2 1.7 2.3 2.8 3.4 4.0 4.5 5.0
			KEYY B ■ B ■ B ■ B ■ A ← A → RELAY OFF
8	KEY X	I	KEY X A ■ A ► A ◆ B ◆ B ◆ DUB CD
9	AMS IN	I	AMS signal input
10	L MUTE	0	Line mute output
11	RMUTE	0	Mute output
12	RELAY (B MD)	0	REC/PB change relay output
13	R/P	0	Dolby IC REC/PB select output
14	EQ70	0	Playback EQ output for playing deck (Not used)
15	SEL A/B	0	Dolby IC PB input Deck A/B select output
16	AMS MUTE	0	AMS mute output
17	AU BUS	I	AUDIO BUS input
18	BIAS	0	Bias oscillation output
19	AUB OUT	0	AUDIO BUS output
20	A BUS	I	AUDIO BUS normal input
21	NC		Not used
22	NC	_	
23	NC	-	} GND
24	Vss	_]
25	RESET	I	Microcomputer reset input
26	XIN	I	Clock input (4 MHz)
27	XOUT	0	Clock output (4 MHz)
28	φ	0	Not used (open)
29	Vss	-	
30	PW IN	I	GND
31	A STOP	I	Deck A STOP switch input
32	A HALF	I	Deck A Half switch input
33	A SHUT	I	Deck A Reel table signal input
34	A70 U	I	GND
35	B STOP	I	Deck B STOP switch input

Pin No.	Pin Name	I/O	Function
36	B SHUT	I	Deck B Reel table signal input
37	B70 U	I	+5V
38	NC		Not used
39	ARM 3	0	
40	ARM 2	0	Deck A Reel Motor control out
41	ARM 1	0	
42	BRM 3	0	
43	BRM 2	0	Deck B Reel Motor control out
44	BRM 1	0	1)
45	H/L	0	Capstan motor speed select
46	A CM	0	A Capstan motor ON/OFF
47	в см	0	B Capstan motor ON/OFF
48	BS/ASCH	I	Deck B Reel table/BS signal input
49	AP/BSCH	I	Deck A Reel table/AP signal input
50	A REV	0	Deck A RVS LED output
51	A FWD	0	Deck A FWD LED output
52	A PLAY	0	Deck B RVS/FWD LED control output (Not used)
53	DUB H	0	High Speed Dubbing LED output
54	DUB N	0	Normal Speed Dubbing LED output
55	NC		Not used
56	CD SYNC	0	Auto CD Synchro LED output
57	B REV	0	Deck B RVS LED output
58	B FWD	0	Deck B FWD LED output
59	B PLAY	0	Deck B RVS/FWD LED control output (Not used)
60	B PAUSE	0	Deck B PAUSE LED output
61	B REC	0	Deck B REC LED output
62	PASS	0	PASS amplifier switch output
63	TEST	1	Electrical adjustment test mode setting
64	NC	_	Not used
65	Vss	_	GND
66	NC	-	Not used
67	Vcc		POWER 5 \pm 0.5V
68	AVss		Analog system GND
69	VREF	I	Analog system reference voltage input
70	DAC	_	
71	_	_	} GND
72		-	

[TEST MODE]
When making pin (a) low (connect pin (1) of CN904 to ground with jumper wire), following function operates.

1. Source monitor
Release the line mute while recording.

• IC1501 TA Control (μPD78042GF-056-3B9)

Pin No.	Pin Name	I/O	Function
1	7G	0	
2	6G	0	
3	5G	0	
4	4G	0	FL tube digit output
5	3G	0	
6	2G	0	
7	1G	0	
8	VDD	-	Power supply pin (+5V)
9	К3	I	
10	K2	I	Key scan input
11	K1	I	
12	DBS	0	
13	SURROUND	0	Not used. (open)
14	AUB OUT	0	Audio bus output
15	CLK (GEQ)	0	Serial clock line (IC1005 NJU7305L) output
16	DAT (GEQ)	0	Serial data line (IC1005 NJU7305L) output
17	RES	ī	Reset. "L": reset
18	LINE MUT (OD)	0	Line mute output
19	MULTI (OD)	0	Multi plex ON/OFF. "L": on
20	AVss	I	Ground pin
21	*	I	Not used. (Connected to GND)
22	F7	I	
23	F6	I	
24	F5	ı	
25	F4	I	Frequency for speana input
26	F3	I	
27	.F2	I	
28	F1	I	
29	AVDD	-	Power supply pin (+5V)
30	AVREF	_	A/D reference voltage input
31	AUB IN	· I	Audio bus input
32	*	_	Not used. (open)
33	Vss	_	Ground pin
34	X1	I)
35	X2	0	Connected to system clock (4.19 MHz) oscillator.
36	FNC-A	0)
37	FNC-B	0	Function LED control output
38	FNC-G	0	
39	SEL-A	0	7
40	SEL-B	0	Selection LED control output

41 SEL-G 42 MULTI 43 VOL LED 44 VOL UP 45 VOL DOWN 46 P FILE 47 AC CUT IN 48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY 54 EFECT	0	Function
43 VOL LED 44 VOL UP 45 VOL DOWN 46 P FILE 47 AC CUT IN 48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	1 0	Selection LED control output
44 VOL UP 45 VOL DOWN 46 P FILE 47 AC CUT IN 48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	0	Multi plex LED output
45 VOL DOWN 46 P FILE 47 AC CUT IN 48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	0	Volume LED output
46 P FILE 47 AC CUT IN 48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	0	Volume up output
47 AC CUT IN 48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	0	Volume down output
48 IC (Vss) 49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	0	P.file LED output
49 C (OD) 50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	I	AC cut input
50 B (OD) 51 A (OD) 52 VDD 53 MEMORY	-	Not used. (Connected to GND)
51 A (OD) 52 VDD 53 MEMORY	0	
52 VDD 53 MEMORY	0	Function control output
53 MEMORY	0	
	_	Power supply pin (+5V)
54 EFECT	0	Memory LED output
		Equalizer LED output
55 #5	0	#5 LED output
56 SURROUND	I	Not used. (Connected to GND)
57 CS (GEQ)	0	CS line (IC1005 NJU7305L) output
58 (INPUT)	I	Not used. (Connected to GND)
59 S15	0	
60 S14	0	FL tube segment output
61 S13	0	
62 S12	0	
63 S11	0	
64 S10	0	
65 S9	0	FL tube segment output (key scan output)
66 S8	0	
67 S7	0	
68 S6	0	
69 S5	0	Frank
70 S4	0	FL tube segment output
71 V LOAD	-	Power supply pin (-33V) for pull down register
72 S3	0	
73 S2	.0	FL tube segment output
74 S1	0	
75 13G	0	
76 12G	0	
77 11G	0	FI dicta current
78 10G		FL digit output
79 9G	0	
80 8G	0	

SECTION 6 EXPLODED VIEWS

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts color Cabinet's color

• -XX, -X mean standardized parts, so they may have some difference from the original one.

• The mechanical parts with no reference number in the exploded views are not supplied.

• Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

• G : German model

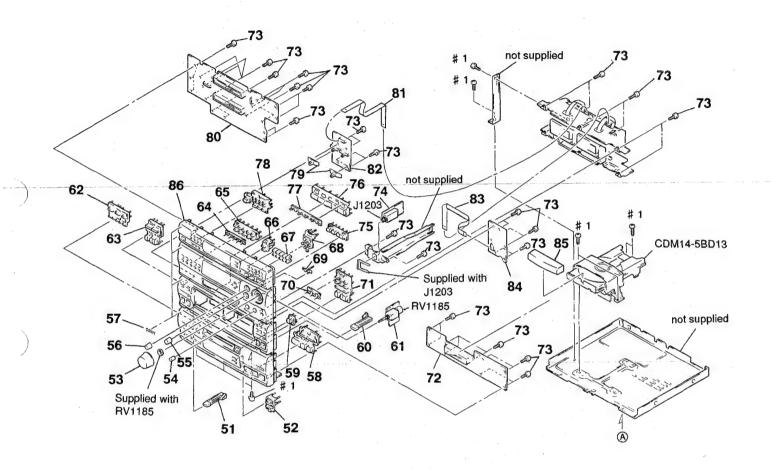
• IT : Italian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only specified. with part number

6-1. CABINET SECTION • EE : East European model #2 16 B not supplied not supplied not supplied

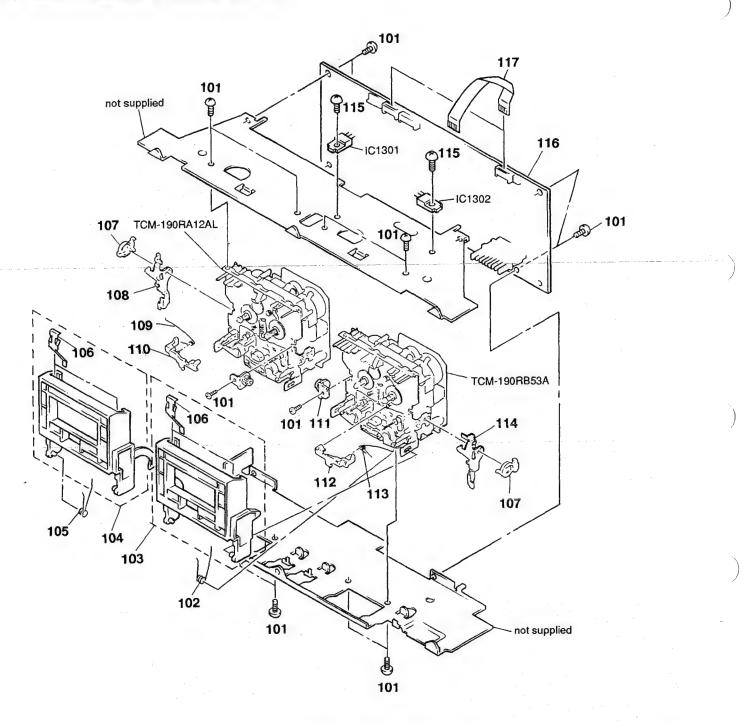
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 2 * 3 4 * 5	A-4353-636-A 4-962-725-31 3-363-099-01	LID (A) ASSY, CASSETTE LID (B) ASSY, CASSETTE CASE SCREW (CASE 3 TP2) MAIN BOARD, COMPLETE (UK)		* 12 * 12 * 13 * 14	A-4369-305-A 3-703-244-00	A POWER AMP BOARD, COMPLETE (AEP, EE, CIS A POWER AMP BOARD, COMPLETE (G, IT) BUSHING (2104), CORD POLAR BOARD, COMPLETE (CIS)	s) •
* 5 * 5 * 5 * 5 * 5	A-4369-306-A A-4369-311-A A-4369-901-A	MAIN BOARD, COMPLETE (AEP) MAIN BOARD, COMPLETE (IT) MAIN BOARD, COMPLETE (EB) MAIN BOARD, COMPLETE (G) MAIN BOARD, COMPLETE (CIS)		* 15 * 15 * 15 * 15 * 15	4-962-744-41 4-962-744-51 4-962-744-71 4-962-744-61	PANEL, BACK (AEP) PANEL, BACK (G) PANEL, BACK (IT) PANEL, BACK (UK) PANEL, BACK (EE, CIS)	
* 7 8 9	1-696-674-11 1-690-824-11 1-575-906-11	WIRE (FLAT TYPE) (26 CORE) WIRE (FLAT TYPE) (23 CORE) WIRE (FLAT TYPE) (25 CORE) WIRE, FLAT TYPE (15 CORE) (AEP, G, IT) WIRE, FLAT TYPE (11 CORE) (UK, EE, CIS		↑16 ↑17 * 18 19 ↑F101	1-696-570-21 4-949-235-11 1-690-590-31 1-532-286-00	WIRE (FLAT TYPE) (13 CORE)(CIS) FUSE (T2.5A)	
* 10 * 10 * 10 * 11 * 11	A-4369-172-A A-4371-009-A 1-652-388-11	POWER BOARD, COMPLETE (UK) POWER BOARD, COMPLETE (AEP, G, IT) POWER BOARD, COMPLETE (EE, CIS) FUSE BOARD (AEP, G, IT) FUSE BOARD (UK, EE, CIS)		↑F102 ↑F103 ↑F104 ↑T1 ↑T1	1-532-299-00 1-532-299-00 1-423-927-11	FUSE (T2.5A) FUSE (T5.0A) FUSE (T5.0A) FUSE (T5.0A) TRANSFORMER, POWER (AEP, G, IT, EE, CIS) TRANSFORMER, POWER (UK)	
* 12	A-4369-160-A	POWER AMP BOARD, COMPLETE (UK)		<u>^</u> T2 <u>^</u> T2	1-423-929-11 1-423-930-11	TRANSFORMER, POWER (SUB) (AEP, G, IT) TRANSFORMER, POWER (SUB) (UK, EE, CIS)	

6-2. FRONT PANEL SECTION



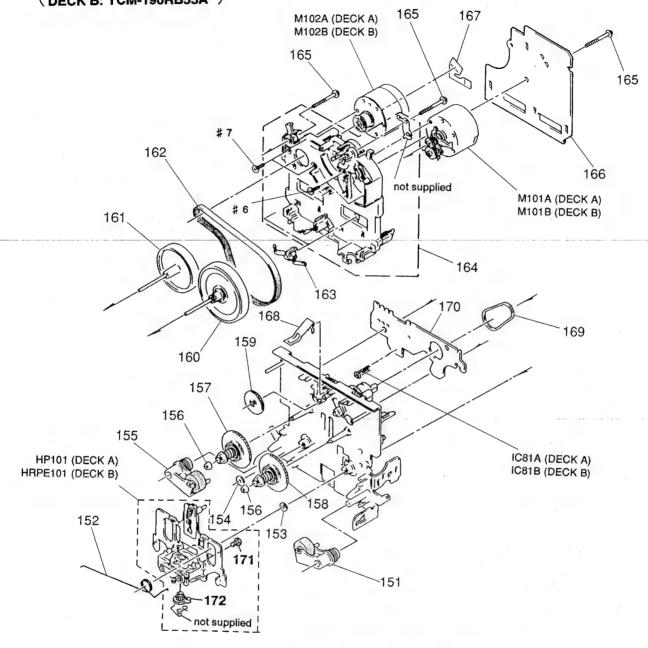
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51 52 53	4-962-709-01 4-962-694-01 4-955-635-11 4-955-744-01	KNOB (V)		* 72 73 * 74	A-4369-167-A 4-951-620-01 1-651-166-11	CD PANEL BOARD, COMPLETE (AEP, G, IT, EF SCREW (2.6X8), +BVTP H. P BOARD	E, CIS)
54 55	4-962-703-11			75 76	4-962-681-11	BUTTON (BAND) BUTTON (FU)	
56 57 58 59	4-962-667-31	EMBLEM (4-A), SONY	· .	77 78 79	4-962-689-01	INDICATOR (FU) BUTTON (TIMER) KNOB, SLIDE	
60		BUTTON (EJECT) (R)		* 80 * 80	A-4369-169-A	PANEL BOARD, COMPLETE (UK) PANEL BOARD, COMPLETE (AEP)	
* 61 62 63 64	X - 4944 - 378 - 1	VR BOARD BUTTON (PROG) DECK ASSY, BUTTON (A) INDICATOR (SELECT 5)		* 80 * 80 * 80	A-4369-309-A	PANEL BOARD, COMPLETE (IT) PANEL BOARD, COMPLETE (EE) PANEL BOARD, COMPLETE (G)	
65	X-4944-523-1	BUTTON (EFFECT) ASSY		* 80 81	1-751-025-11	PANEL BOARD, COMPLETE (CIS) WIRE (FLAT TYPE) (9 CORE)	•
66 67 68 69	4-962-676-11 4-962-692-01 4-962-682-11	BUTTON (RDS) (AEP, G, IT) BUTTON (PRESET) BUTTON (CURSOR) INDICATOR (VO)		* 82 83 * 84	1-751-210-11 1-650-781-11	PANEL (A) BOARD WIRE (FLAT TYPE) (13 CORE) PANEL (B) BOARD	
70		INDICATOR (DUB)		85 86 86	X-4944-681-1	PANEL, LOADING PANEL ASSY, FRONT (UK, EE, CIS) PANEL ASSY, FRONT (AEP, IT, G)	
* 71 * 72		DECK ASSY, BUTTON (B) CD PANEL BOARD, COMPLETE (UK)		00	V-4244-007-1	Third noon, From (AEF, 11, 0)	

6-3. MECHANISM DECK CHASSIS SECTION



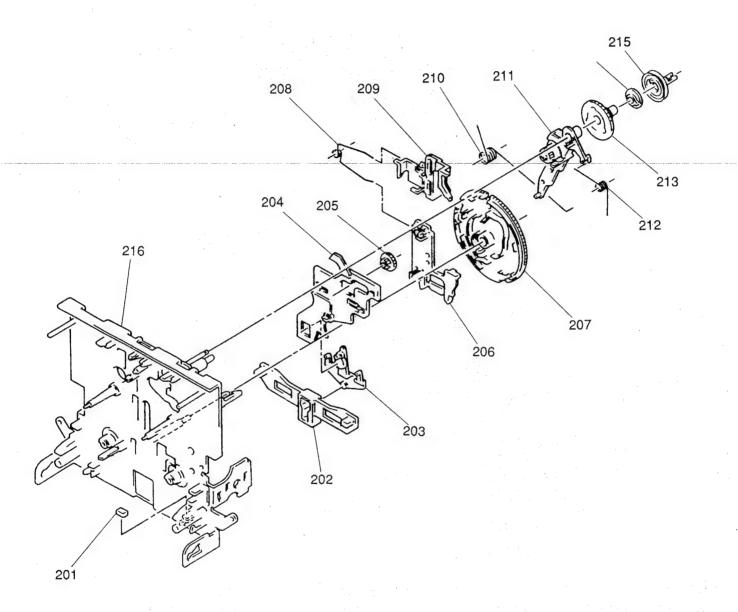
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101 102 103 104 105	3-354-960-01 A-4325-164-A A-4325-163-A	SCREW, +BV (2.6X8) TAPPING SPRING (LOADING R), TORSION HOLDER (R) ASSY, CASSETTE HOLDER (L) ASSY, CASSETTE SPRING (LOADING L), TORSION		111 112 113 * 114 115	3-354-962-01 3-354-954-01	DAMPER LEVER (EJ SAFTY LEVER R) SPRING (EJ SAFTY SPRING R) LEVER (LOCK LEVER R) SCREW (2.6X8), +BVTP	
106 107 * 108 109 110	3-354-957-01 3-354-953-01 3-354-961-01	DETENT, CASSETTE JOINT (LOCK LEVER) LEVER (LOCK LEVER L) SPRING (EJ SAFTY SPRING L) LEVER (EJ SAFTY LEVER L)			A-4369-150-A		EE, CIS)

6-4. MECHANISM DECK SECTION-1 (DECK A: TCM-190RA12AL) DECK B: TCM-190RB53A



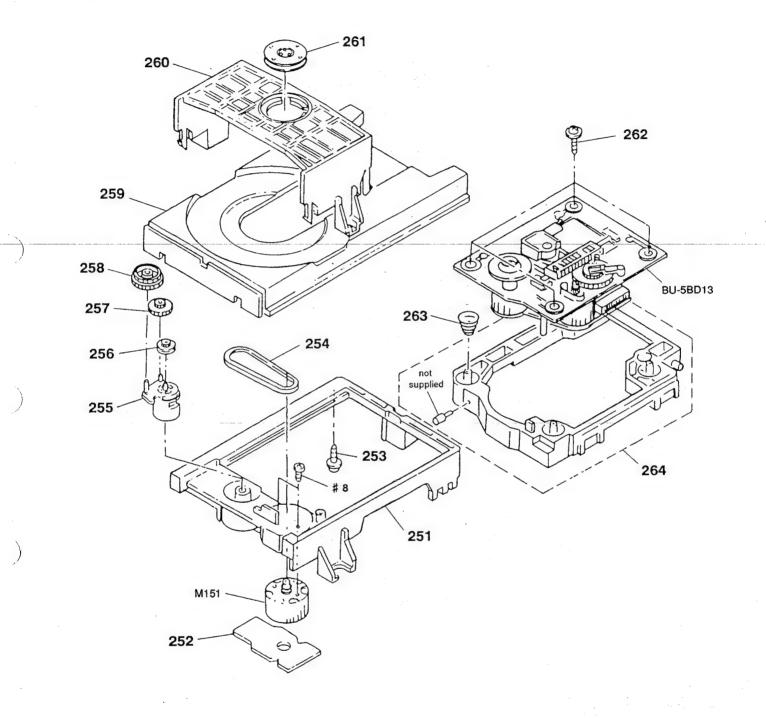
Ref. No.	Part No.	Description	Remark	R	ef. No.	Part No.	Description	Remark
151 152 153 154 155	3-907-362-01 3-356-713-01 3-356-714-01			*	166 167 168 169	1-638-983-11 3-359-430-01	MD-B BOARD, COMPLETE (RB53A) MOTOR FLEXIBLE BOARD SPRING(CASSETTE RETAINER), LEAF BELT (FR), SQUARE	
156 157 158 159 160	X-3366-971-1 X-3366-970-1 3-359-424-01	CAP (REEL) TABLE ASSY (B), REEL TABLE ASSY, REEL GEAR (REV GEAR) FLYWHEEL (FWD) ASSY			170 170 171 172 HP101	1-638-020-11 3-388-848-01 3-359-405-11 A-2003-757-A	LEAF SW-A BOARD (DECK A) LEAF SW-A BOARD (DECK B) SCREW (P2X6) (B TIGHT) GEAR (CENTER) BASE ASSY, HEAD (DECK A) BASE ASSY, HEAD (DECK B)	
161 162 163 164 165	3-359-417-01 3-575-321-00 3-359-436-11 3-359-414-01	FLYWHEEL (REV) ASSY BELT (FLAT), CAPSTAN RETAINER, THRUST, CAPSTAN BASE (THRUST RETAINER), FITTING SCREW (+PTPWH 2X23)			IC81A IC81B M101A M101B	8-749-924-10 8-749-924-10 X-3363-501-1 X-3363-501-1 X-3365-377-1	PHOTO REFECTOR NJ5165-B (DECK A) PHOTO REFECTOR NJ5165-B (DECK B) MOTOR ASSY (REEL) (DECK A) MOTOR ASSY (REEL) (DECK B) MOTOR ASSY (CAPSTAN) (DECK A)	
* 166	A-2006-623-A	MD-A BOARD, COMPLETE (RA12AL)			M102B	X-3365-377-1	MOTOR ASSY (CAPSTAN) (DECK B)	

6-5. MECHANISM DECK SECTION-2 (DECK A: TCM-190RA12AL) DECK B: TCM-190RB53A



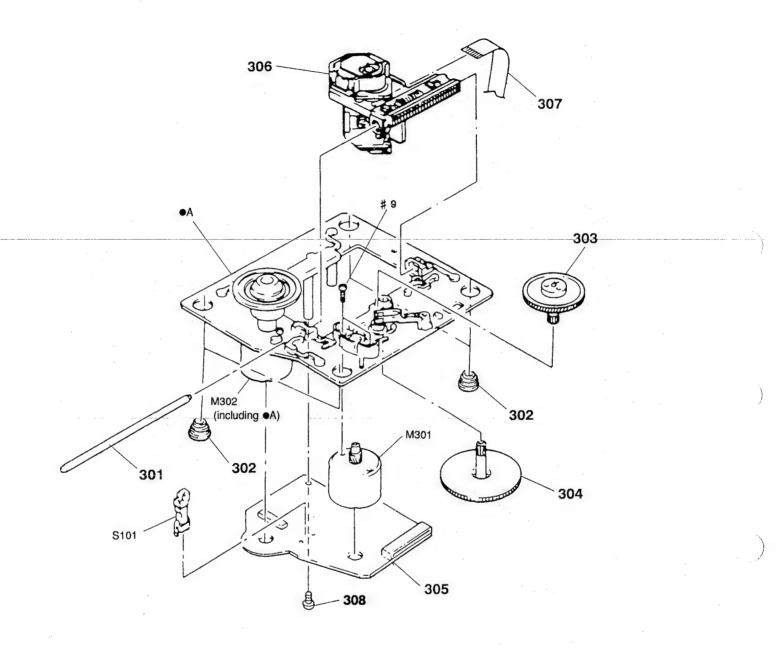
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201 * 202 203 * 204 204	3-359-426-01 3-359-415-01	SPACER SLIDER (REVERSE SLIDER) LEVER (REVERSE LEVER) SLIDER (TRIGGER SLIDER) (DECK A) SLIDER (TRIGGER SLIDER) (DECK B)		209 210 211 212 213	3-359-456-01 X-3366-569-1 3-359-453-01	SLIDER (BRAKE PLATE) (DECK B) SPRING(TRIGGER SPRING), TORSION ARM ASSY, FR SPRING (FR ARM), TORSION GEAR (FR GEAR)	
205 * 206 207 208 209	3-359-427-01 3-359-420-01 3-359-454-01	GEAR (TRIGGER) SLIDER (LEVERSE SLIDER) GEAR (CAM GEAR) SPRING, TORSION SLIDER (BRAKE PLATE) (DECK A)		214 215 216 216	3-359-418-11 X-3359-415-1	CLUTCH (REEL DISK) PULLEY (FR PULLEY) CHASSIS ASSY, MECHANICAL (DECK A) CHASSIS ASSY, MECHANICAL (DECK B)	

6-6. CD MECHANISM SECTION (CDM14-5BD13)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251 * 252 * 253	4-933-111-01 1-645-721-11 4-917-583-21	LOADING BOARD		259 260	4-933-112-01 4-933-110-01	HOLDER (MG)	
254 255	4-927-649-01 4-933-109-01			* 261 262 263		MAGNET SCREW (+PTPWH M2.6X6) SPRING (932), COMPRESSION	•
256 257 258	4-927-651-01 4-927-628-01 4-933-107-01	GEAR (C)		264 M151	4-933-129-01		

6-7. OPTICAL PICK-UP BLOCK SECTION (BU-5BD13)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301 302 303 304 * 305	4-917-567-01 4-917-564-01 A-4673-064-A	INSULATOR (BU) GEAR (M)		307 308 M301 M302 S101	4-951-620-01 X-4917-523-4 X-4917-504-1	WIRE, FLAT TYPE (12 CORE) SCREW (2.6X8), +BVTP MOTOR ASSY (SPINDLE) MOTOR ASSY (SLED) SWITCH, LEAF (LIMIT)	

SECTION 7 ELECTRICAL PARTS LIST

BD

NOTE:

The components identified by mark riangle or dotted line with mark riangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts color

Cabinet's color

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable
- SEMICONDUCTORS
 In each case, u: μ, for example:
 uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
 uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS uF: μF
- COILS uH : μH
- G : German model • IT : Italian model
- EE : East European model

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Rem	ark
 	A-4673-064-	A-BD-BOARD, COMPI	ETE					<-CONNECTOR->			

						* CN101	SOCKET, CONNECTOR (SM	(SMT) 26P			
		< CAPACITOR >				CN102	1-565-771-11	CONNECTOR, FPC (1.0MM)	(ZIF) 1	2P	
C101	1_162_005_1	CERAMIC CHIP	470PF	10%	50V			< IC >			
C101		CERAMIC CHIP	0. 1uF	10%	25V			\ 1C /			
C102		CERAMIC CHIP	470PF	10%	50V	10101	8-752-361-90	IC CXD2515Q	•		
C105		TANTALUM CHIP	4. 7uF	10%	16V		8-759-176-09	· ·			
C103	1-164-346-1	CERAMIC CHIP	luF	10%	16V		8-752-367-61				
	1 101 010 1	Committee on the									
C107		CERAMIC CHIP	2. 2uF		16V			< COIL >			
C108		CERAMIC CHIP	0. 047uF		50V						
C109		CERAMIC CHIP	0. 0015uF	10%	50V	L101		INDUCTOR, FERRITE BEAL			
C110		CERAMIC CHIP	0.0047uF	5%	50V	L102		INDUCTOR, FERRITE BEAL			
C111	1-163-251-1	CERAMIC CHIP	100PF	5%	50V	L103 L104	1-414-234-11	INDUCTOR, FERRITE BEAD METAL CHIP 10		1/10W	
C110	1 162 020 0	CEDANIC CUID	0. 1uF		25V	L104 L105	1-216-001-00			1/10W	
C112 C113		CERAMIC CHIP CERAMIC CHIP	0. 1uF		25V 25V	L103	1-210-293-00	METAL CHIT	3/0	1/10#	
C113		CERAMIC CHIP	0. 1ur		50V	L106	1-414-234-11	INDUCTOR, FERRITE BEAL)		
C123		CERAMIC CHIP	0. 47uF		25V	L107	1-216-295-00			1/10W	
C131		CERAMIC CHIP	0. 1uF		25V	L108	1-216-295-00			1/10W	
0202											
C132	1-163-038-00	CERAMIC CHIP	0. 1uF		25V			< MOTOR >			
C133	1-163-038-00	CERAMIC CHIP	0. luF		25V						
C153	1-163-038-00	CERAMIC CHIP	0. luF		25V	M301		MOTOR ASSY (SPINDLE)			
C159		CERAMIC CHIP	0.0068uF	10%	50V	M302	X-4917-504-1	MOTOR ASSY (SLED)			
C161	1-163-038-00	CERAMIC CHIP	0. 1uF	%	25V			/ PROTOMOR >			
	1 100 000 0	000044440 04440	0.1.7		0511			< RESISTOR >			
C177		CERAMIC CHIP	0. luF		25V	D101	1 216 077 00	METAL CHID LEV	'C9'	1 /1 OW	
C178		CERAMIC CHIP CERAMIC CHIP	0. 1uF 0. 1uF		25V 25V	R101 R102	1-216-077-00 1-216-097-00			1/10W 1/10W	
C179 C181		CERAMIC CHIP	0. 1uF		25V 25V	R102	1-216-077-00			1/10W	-
C181		CERAMIC CHIP	0. 1uF		25V	R103	1-216-085-00			1/10W	
C102	1 100 000 00	CDIVISITE CITT	U. IUI		501	R105	1-216-065-00			1/10W	
C183	1-135-156-21	I TANTALUM CHIP	6. 8uF	10%	10V					_,	
C184		I TANTALUM CHIP	6. 8uF	10%	10V	R106	1-216-061-00	METAL CHIP 3.3K	5%	1/10W	
C185	1-135-156-21	TANTALUM CHIP	6. 8uF	10%	10V	R107	1-216-061-00	METAL CHIP 3.3K	5%	1/10W	
C186	1-163-038-00	CERAMIC CHIP	0. luF		25V	R108	1-216-073-00	METAL CHIP 10K	5%	1/10W	
C187	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R109	1-216-121-00	METAL CHIP 1M		1/10W	
						R110	1-216-025-00	METAL CHIP 100	5%	1/10W	
		CERAMIC CHIP	0. 1uF		25V			WDD.1. 0000		* (* OTF	
C191		CERAMIC CHIP	8PF		50V	R112	1-216-049-00			1/10W	
C192		CERAMIC CHIP	8PF	F0/	50V	R122	1-216-295-00			1/10W	
C193		CERAMIC CHIP	220PF	5% = °	50V	R123	1-216-073-00 1-216-097-00			1/10W	
C194	1-103-125-00	CERAMIC CHIP	220PF	5%	50 V	R124 R125	1-216-049-00			1/10W 1/10W	
C195	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	11123	1 210-043-00	MUIAL CHII IN	J/0	1/10#	
C195		CERAMIC CHIP	470PF	10%	50V	R126	1-216-049-00	METAL CHIP 1K	5%	1/10W	
C197		CERAMIC CHIP	0. 1uF	10%	25V	R127	1-216-049-00			1/10W	
						1					

BD CD PANEL

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Descrip	tion				Remark
R131	1-216-037-00	METAL CUID	330	5%	1/10W				< RESIS	TOD \				
R158	1-216-111-00		390K		1/10W				/ NESIS	TOR >				
R159	1-216-101-00		150K		1/10W		R201	1-249-428-11	CARBON		8. 2K	5%	1/4W	F
RIOU	1 210 101 00	mbino onii	10011	070	1/ 1011		R202	1-249-428-11			8. 2K		1/4W	
R181	1-216-053-00	METAL CHIP	1.5K	5%	1/10W		R203	1-249-417-11			1K		1/4W	
R182	1-216-080-00			5%	1/10W		R204	1-249-417-11			1K		1/4W	
R183	1-216-080-00			5%	1/10W		R205	1-249-417-11			1K		1/4W	
R184	1-216-080-00			5%	1/10W			1 510 111 11	CHILDON		111	0/0	1/11	1
R185	1-216-080-00		20K	5%	1/10W		R206	1-249-441-11	CARBON		100K	5%	1/4W	
	1 210 000 00			0,0	-,		R207	1-249-428-11			8. 2K		1/4W	F
R187	1-216-035-00	METAL CHIP	270	5%	1/10W		R208	1-249-418-11			1. 2K		1/4W	
R188	1-216-121-00		1M	5%	1/10W		R209	1-247-836-11			1. 6K		1/4W	•
R189		INDUCTOR, FERRIT			-,		R210	1-249-421-11			2. 2K		1/4W	F
									0.11.12011			070	-, -,	•
		< SWITCH >					R211	1-249-423-11	CARBON		3. 3K	5%	1/4W	F
							R212	1-249-426-11			5. 6K		1/4W	•
S101	1-572-085-11	SWITCH, LEAF (LI	MIT)				R213	1-247-856-00			11K		1/4W	
							R214	1-249-435-11			33K		1/4W	
		< VIBRATOR >					R215	1-249-428-11			8. 2K		1/4W	F
													-,	
X101	1-579-904-11	VIBRATOR, CRYSTA	L (33.	8MHz)			R216	1-249-418-11	CARBON		1. 2K	5%	1/4W	F
			(,			R217	1-247-836-11			1. 6K		1/4W	•
******	******	******	*****	****	******	*****	R218	1-249-421-11			2. 2K		1/4W	F
							R219	1-249-423-11			3. 3K		1/4W	
*	A-4369-154-A	CD PANEL BOARD,	COMPLE	ETE (U	K)		R220	1-249-426-11			5. 6K		1/4W	•
		**********		•	/							0.0	-, -,,	
							R221	1-247-856-00	CARBON		11K	5%	1/4W	
*	A-4369-167-A	CD PANEL BOARD,	COMPLE	ETE			R222	1-249-435-11			33K		1/4W	
		**********	*****	**			R223	1-249-417-11			1K		1/4W	F
				(AEP	, IT, G, E	E, CIS)	R224	1-249-417-11			1K		1/4W	
				•			R225	1-249-425-11					1/4W	
*	4-949-935-21	CUSHION (FL)											_,	
*		HOLDER (1F), FL	TUBE				R226	1-249-417-11	CARBON		1K	5%	1/4W	F
							R227	1-249-417-11			1K		1/4W	
		< CAPACITOR >					R228	1-249-417-11	CARBON		1K		1/4W	
							R229	1-249-417-11	CARBON		1K		1/4W	
C201	1-161-494-00	CERAMIC	0.0221	ıF	2	5V								
C202	1-164-159-11	CERAMIC	0. 1uF		5	07			< SWITCH	H >				
C203	1-164-159-11	CERAMIC	0. 1uF		5	07								
C204	1-124-903-11	ELECT	1uF	2	0% 5	07	S201	1-554-303-21	SWITCH,	TACTILE	(PROG	RAM)		
C205	1-124-903-11	ELECT	1uF	2	0% 5	0V	S202	1-554-303-21	SWITCH,	TACTILE	(SHUF)	FLE)		
							S203	1-554-303-21	SWITCH,	TACTILE	(CONT	INUE)		
C206	1-162-294-31	CERAMIC	0.001u	F 1	0% 5	07	S204	1-554-303-21	SWITCH,	TACTILE	(TIME))		
C207	1-162-294-31	CERAMIC	0.001t	F 1	0% 5	07	S205	1-554-303-21	SWITCH,	TACTILE	(REPE	AT)		
											*.			
		< CONNECTOR >					S206	1-554-303-21	SWITCH,	TACTILE	(FADE))		
							S207	1-554-303-21	SWITCH,	TACTILE	(MUSI	C SCAN)		
* CN201	1-568-839-11	SOCKET, CONNECTO	R 23P				S208	1-554-303-21						,
							S209	1-554-303-21	SWITCH,	TACTILE	(CHECI	K)		
		< FLUORESCENT IN	DICATO	R >			S210	1-554-303-21	SWITCH,	TACTILE	(CLEA	R)		
FLD201	1-517-297-11	INDICATOR TUBE,	FLUORE	SCENT			S211	1-554-303-21						
							S212	1-554-303-21						
		< IC >					S213	1-554-303-21						
							S214	1-554-303-21						
IC201	8-752-852-17	IC CXP82316-03	5Q				S215	1-554-303-21	SWITCH,	TACTILE		\triangleleft		
		< TRANSISTOR >				-	S216	1-554-303-21	SWITCH,	TACTILE	(<u>△</u> 01	PEN/CLO	SE)	
Q201	8-729-900-80	TRANSISTOR DTC	114ES											

CD PANEL FUSE H.P LEAF SW-A LEAF SW-B LOADING

	Ref. No.	Part No.	<u>Description</u> <u>Rema</u>	rk	Ref. No.	Part No.	Description		Remark			
			< VIBRATOR >		*	1-638-020-11	LEAF SW-B BOARD (RB53A)					
	X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)				******					
	******	******	************	**			< CONNECTOR >					
	*		FUSE BOARD (AEP, IT, G)		* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P					
	*	1-052-500-11	**************************************				< IC >					
	*	1-652-389-11	FUSE BOARD (UK, EE, CIS)		IC81B	8-749-924-10	IC PHOTO REFLECTOR NJL51	.65K-B(H)	1)			
			********				< RESISTOR >					
			< FUSE >		R81	1-249-414-11		1/4W	P			
	∱ F101	1-532-286-00	FUSE, TIME-LAG (T2.5A)	ı	R82	1-247-818-91		1/4W	Г			
	△ F102		FUSE, TIME-LAG (T2. 5A)		R83	1-247-834-11		1/4W				
	∱F103		FUSE, TIME-LAG (T5. 0A)		R84	1-249-417-11		1/4W	E .			
			FUSE, TIME-LAG (T5. 0A)			1-249-408-11		1/4W				
					NOO	1 243 400 11		1/4#	г			
	******	****	****************			< SWITCH >						
	*	1-651-166-11			S81B		SWITCH, PUSH (1 KEY) (STOP	DET)				
			******		S82B		SWITCH, LEAF (CrO2 DET)					
				- 1	S84		SWITCH, LEAF (ERASE PROOF,					
			< CAPACITOR >		S85		SWITCH, LEAF (ERASE PROOF,	SIDE B)				
					S86B	1-571-281-21	SWITCH, LEAF (HALF DET)					
		1-162-282-31 1-162-282-31			******	*******	*********	******	*****			
			< JACK >		1-645-721-11 LOADING BOARD							

	J1203	1-569-113-11	JACK, LARGE TYPE (HEADPHONES)				< CONNECTOR >					
	******	******	*************	**								
		1 000 000 11	IDAD CEL A DOLDD (DATOAT)		* CN151	1-568-943-11	PIN, CONNECTOR 5P					
	*	1-638-020-11	LEAF SW-A BOARD (RA12AL)	- 1								
			******				< MOTOR >					
			< CONNECTOR >		M151	A-4604-363-A	MOTOR (L) ASSY (LOADING)					
	* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P				< SWITCH >					
			< IC >									
	IC81A	8-749-924-10	PHOTO REFLECTOR NJL5165K-B(H1)				SWITCH, LEAF (LOAD IN)					
			< RESISTOR >		************************							
	DO 4	1 040 417 11	CIDDON IN FOU 1/15 P	- 1								
	R84	1-249-417-11										
	R85	1-249-408-11	CARBON 180 5% 1/4W F									
			< SWITCH >	1								
		,										
	S81A		SWITCH, PUSH (1 KEY) (STOP DET)									
	S82A		SWITCH, LEAF (CrO2 DET)									
	S86A	1-571-281-21	SWITCH, LEAF (HALF DET)									
	******	**********	*************	* *								

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	<u>n</u>		Remark
*	A-4369-161-A	MAIN BOARD,		, ,		C25 C26	1-161-327-00 1-124-477-11		0. 0033uF 47uF	30% 20%	16V 25V
*	A-4369-306-A	MAIN BOARD,				C27 C28	1-126-962-11 1-161-494-00		3. 3uF 0. 022uF	20%	50V 25V
*	A-4369-300-A	MAIN BOARD,				C29 C30 C31	1-124-907-11 1-161-494-00 1-101-005-00	CERAMIC	10uF 0. 022uF 22000PF	20%	50V 25V 50V
*	A-4369-311-A	MAIN BOARD,				C32	1-162-196-31	CERAMIC	5. 6PF	10%	50V (AEP, UK, EE, CIS)
*	A-4369-901-A	MAIN BOARD, *******				C32 C33 C34	1-162-198-31 1-161-379-00 1-164-159-11	CERAMIC	8. 2PF 0. 01uF 0. 1uF	10% 20%	50V (IT, G) 25V 50V
*	A-4369-905-A	MAIN BOARD, *******				C37	1-161-374-11	CERAMIC	0. 0015uF	20%	(AEP, UK, EE, CIS) 50V (AEP, UK, EE, CIS)
	7-685-646-79			TYPE2	N-S	C38	1-102-120-00	CERAMIC	0. 0018uF	10%	50V
	7-682-547-09			(S)		C39	1-101-005-00	CERAMIC	22000PF		(AEP, UK, EE, CIS) 50V
	1 101 070 00	< CAPACITOR		0.00/	057	C45	1-161-379-00		0. 01uF	20%	(AEP, UK, EE, CIS) 25V
C1 C2 C3	1-161-379-00 1-124-477-11 1-161-379-00	ELECT	0. 01uF 47uF 0. 01uF	20% 20% 20%	25V 25V 25V	C46 C51	1-162-294-31 1-102-961-00		0.001uF 27PF	10% 5%	50V (AEP) 50V
C4 C5	1-164-159-11 1-161-379-00). 1uF). 01uF	20%	50V 25V (CIS)	C52 C53 C54	1-102-961-00 1-124-477-11 1-161-379-00	ELECT	27PF 47uF 0. 01uF	5% 20% 20%	50V 25V 25V
C5	1-164-159-11	CERAMIC). luF		50V (EXCEPT CIS)	C55	1-161-379-00 1-161-379-00	CERAMIC	0. 01uF 0. 01uF	20% 20% 20%	25V 25V
C6 C7 C8 C9	1-161-379-00 1-126-934-11 1-161-379-00 1-161-379-00	ELECT 2	0. 01uF 220uF 0. 01uF 0. 01uF	20% 20% 20% 20%	25V 16V 25V 25V	C57 C58 C61	1-161-379-00 1-161-379-00 1-124-925-11	CERAMIC CERAMIC	0. 01uF 0. 01uF 2. 2uF	20% 20% 20%	25V 25V 100V
C10 C11	1-161-379-00 1-124-907-11	CERAMIC (). 01uF 10uF	20%	25V 50V	C62 C63	1-124-463-00 1-161-379-00	ELECT	0. 1uF 0. 01uF	20% 20% 20%	50V 25V
C12 C13 C14	1-124-902-00 1-124-903-11 1-124-903-11	ELECT C). 47uF luF luF	20% 20% 20%	50V 50V 50V	C64 C65 C65	1-161-379-00 1-124-120-11 1-126-934-11	ELECT	0. 01uF 220uF 220uF	20% 20% 20%	25V 25V (UK) 16V
C15 C16	1-124-907-11 1-124-907-11	ELECT	lOuF lOuF	20%	50V 50V	C67 C71	1-161-379-00 1-136-173-00	CERAMIC	0. 01uF 0. 47uF		EP, IT, G, EE, CIS) 25V 50V
C17 C18 C19	1-124-907-11 1-124-907-11 1-136-158-00	ELECT 1	10uF 10uF). 027uF	20% 20% 5%	50V 50V 50V	C72	1-161-494-00		0. 022uF		(AEP, UK, EE, CIS) 25V
					(AEP, UK, EE, CIS)		1-124-463-00		0. 1uF	20%	(AEP, UK, EE, CIS) 50V
C19 C20	1-136-159-00 1-136-158-00	FILM (). 033uF). 027uF	5%	50V (IT, G) 50V (AEP, UK, EE, CIS)		1-162-291-31 1-124-907-11		560PF 10uF	10% 20%	(AEP, UK, EE, CIS) 50V (AEP, IT, G) 50V (AEP, IT, G)
C20 C21 C22	1-136-159-00 1-161-046-00 1-161-046-00	CERAMIC (). 033uF). 0039uF). 0039uF	10%	50V (IT, G) 25V 25V	C83	1-161-379-00 1-124-925-11	ELECT	0. 01uF 2. 2uF	20% 20%	25V (AEP, IT, G) 100V(AEP, IT, G)
C23 C24 C24	1-124-903-11 1-161-374-11 1-162-294-31	CERAMIC C	uF). 0015uF). 001uF	10%	50V 50V (IT, G) 50V (AEP, UK, EE, CIS)	C85 C86 C87 C88	1-162-288-31 1-161-379-00 1-162-291-31 1-161-379-00	CERAMIC CERAMIC	330PF 0. 01uF 560PF 0. 01uF	10% 20% 10% 20%	50V (AEP, IT, G) 25V (AEP, IT, G) 50V (AEP, IT, G) 25V (AEP, IT, G)

MAIN

Ref. No.	Part No.	Description	1		Remark	Ref. No.	Part No.	Description	<u>n</u>		Remark
C89 C90 C91 C92 C93	1-101-880-00 1-102-527-11 1-161-379-00 1-124-907-11 1-124-907-11	CERAMIC CERAMIC ELECT	47PF 82PF 0. 01uF 10uF 10uF	5% 5% 20% 20% 20%	50V (AEP, IT, G) 50V (AEP, IT, G) 25V (AEP, IT, G) 50V (AEP, IT, G) 50V (AEP, IT, G)	C1028 C1029 C1030	1-137-375-11 1-124-903-11 1-137-441-11 1-124-902-00 1-137-370-11	ELECT FILM ELECT	0. 068uF 1uF 0. 027uF 0. 47uF 0. 01uF	5% 20% 5% 20% 5%	50V 50V 50V 50V 50V
C95 C96 C301 C302 C303	1-124-903-11 1-124-903-11 1-124-477-11 1-124-477-11 1-124-927-11	ELECT ELECT ELECT	1uF 1uF 47uF 47uF 4. 7uF	20% 20% 20% 20% 20%	50V (CIS) 50V (CIS) 25V 25V 100V	C1033 C1034 C1035	1-136-168-00 1-137-436-11 1-137-375-11 1-137-434-11 1-130-489-00	FILM FILM FILM	0.0018uF	5%	50V 50V 50V 50V 50V
C304 C305 C306 C308 C309	1-126-176-11 1-124-472-11 1-124-902-00 1-124-907-11 1-124-443-00	ELECT ELECT ELECT	220uF 470uF 0. 47uF 10uF 100uF	20% 20% 20% 20% 20%	10V 10V 50V 50V 10V	C1038 C1039 C1040	1-137-363-91 1-137-439-91 1-137-429-11 1-137-368-11 1-124-907-11	FILM FILM FILM	680PF 0. 012uF 270PF 0. 0047uF 10uF	5% 5% 5% 5% 20%	50V 50V 50V 50V 50V
C310 C311 C312 C313 C314	1-164-159-11 1-164-159-11 1-164-159-11 1-161-379-00 1-161-494-00	CERAMIC CERAMIC CERAMIC	0. 1uF 0. 1uF 0. 1uF 0. 01uF 0. 022uF	20%	50V 50V 50V 25V 25V	C1045 C1046 C1047	1-164-159-11 1-164-159-11 1-164-159-11 1-164-159-11 1-164-159-11	CERAMIC CERAMIC CERAMIC	0. 1uF 0. 1uF 0. 1uF 0. 1uF 0. 1uF		50V 50V 50V 50V 50V
C317 C318 C319 C320 C321	1-162-284-31 1-162-284-31 1-162-284-31 1-162-284-31 1-137-437-11	CERAMIC CERAMIC CERAMIC		10% 10% 10% 10% 5%	50V 50V 50V 50V 50V	C1050 C1051 C1052	1-164-159-11 1-164-159-11 1-162-286-31 1-124-925-11 1-162-282-31	CERAMIC CERAMIC ELECT	0. luF 0. luF 220PF 2. 2uF 100PF	10% 20% 10%	50V 50V 50V (IT, G) 100V 50V
C322 C323 C324 C325 C326	1-137-437-11 1-137-364-11 1-137-364-11 1-124-477-11 1-124-477-11	FILM FILM ELECT	47uF		50V 50V 50V 25V 25V	C1061 C1063 C1064	1-124-477-11 1-162-286-31 1-162-282-31 1-124-482-11 1-124-927-11	CERAMIC CERAMIC ELECT	47uF 220PF 100PF 33uF 4. 7uF	20% 10% 10% 20% 20%	25V (IT, G) 50V (IT, G) 50V 35V (EE, CIS) 100V (AEP, UK, IT, G)
	1-164-159-11 1-124-927-11 1-124-126-00 1-162-286-31 1-124-925-11	ELECT ELECT CERAMIC ELECT	47uF 220PF 2. 2uF	10% 20%	50V 100V 10V 50V (IT, G) 100V	C1066 C1067 C1069	1-161-377-00 1-161-374-11 1-124-464-11 1-164-159-11 1-164-159-11	CERAMIC ELECT CERAMIC	0. 0047uF 0. 0015uF 0. 22uF 0. 1uF 0. 1uF		16V 50V 50V 50V 50V
C1008 C1011 C1013 C1014	1-162-282-31 1-124-477-11 1-162-288-31 1-162-282-31 1-124-482-11 1-124-927-11	ELECT CERAMIC CERAMIC ELECT	47uF 330PF 100PF 33uF	10% 20% 10% 10% 20%	50V 25V (IT, G) 50V (IT, G) 50V 35V (EE, CIS)	C1073 C1074 C1076	1-126-176-11 1-124-443-00 1-124-443-00 1-137-364-11 1-137-375-11	ELECT ELECT FILM		20% 20% 20% 5% 5%	10V 10V 10V 50V 50V
C1015 C1016 C1017	1-161-377-00 1-161-374-11 1-124-464-11 1-164-159-11	CERAMIC CERAMIC ELECT	0. 0047uF 0. 0015uF	30%	(AEP, UK, IT, G) 16V 50V 50V 50V	C1079 C1080 C1081	1-124-903-11 1-137-441-11 1-124-902-00 1-137-370-11 1-136-168-00	FILM ELECT FILM	0. 47uF	20% 5% 20% 5% 5%	50V 50V 50V 50V 50V
C1022 C1023 C1024	1-164-159-11 1-126-176-11 1-124-443-00 1-124-443-00 1-137-364-11	ELECT ELECT ELECT	100uF 100uF	20% 20% 20% 5%	50V 10V 10V 10V 50V	C1084 C1085 C1086	1-137-436-11 1-137-375-11 1-137-434-11 1-130-489-00 1-137-363-91	FILM FILM MYLAR		5%	50V 50V 50V 50V 50V

Ref. No.	Part No.	Description	1		Remar	k Ref. No.	Part No.	Descrip	otion	Remark
		DILI	0 010 F	rov.	FOY	* CN1	1 569 920 11	COCKET	CONNECTOR 11P (UK, EE, CIS	2)
	1-137-439-91		0. 012uF 270PF	5% 5%	50V 50V	CN2			TOR, FFC/FPC 13P (CIS)	·)
	1-137-429-11						1-568-954-11			
	1-137-368-11		0.0047uF		50V				CONNECTOR 23P	
	1-124-907-11		10uF	20%	50V	* CN3U4	1-568-839-11	SUCKEI,	CONNECTOR 23P	
C1301	1-126-974-11	ELECT	3300uF	20%	50V	011100	1 704 900 11	DIN C	NUMBERTON (DCD) (U TVDE) CD	
									ONNECTOR (PCB) (V TYPE) 6P	
	1-126-925-11		470uF	20%	107				ONNECTOR 7P (UK, EE, CIS)	
	1-164-159-11		0. 1uF		50V				ONNECTOR 8P (AEP, IT, G)	
	1-124-564-11		4700uF	20%	25V				ONNECTOR (PCB) (V TYPE) 5P	
	1-124-564-11		4700uF	20%	25V	CN1304	1-750-430-11	CONNEC.	TOR, FFC/FPC 25P	
C1307	1-164-159-11	CERAMIC	0. 1uF		50V					
									ONNECTOR (PCB) (V TYPE) 5P	
	1-126-176-11		220uF	20%	10V	* CN1308	1-566-210-11	PIN, CO	ONNECTOR 3P (POWER SOURCE)	
	1-126-176-11		220uF	20%	10V				(AEP,	UK, IT, G)
	1-124-907-11		10uF	20%	50V					
	1-124-907-11		10uF	20%	50V			< COMPO	OSITION CIRCUIT BLOCK >	
C1317	1-124-907-11	ELECT	10uF	20%	50V					
									ITION CIRCUIT BLOCK IM	
	1-124-907-11		10uF	20%	50V	CP1051	1-239-053-11	COMPOS.	ITION CIRCUIT BLOCK 1M	
	1-126-927-11		2200uF	20%	6. 3V	1				
	1-124-907-11		10uF	20%	50V			< DIODI	E >	
	1-164-159-11		0. 1uF		50V (IT, G)					
C1336	1-164-159-11	CERAMIC	0. 1uF		50V (IT, G)	D1	8-719-987-63		1N4148M	
					4	D2	8-719-987-63		1N4148M (CIS)	
	1-161-379-00		0. 01uF	20%	25V (IT, G)	D3	8-719-987-63		1N4148M (CIS)	
	1-126-176-11		220uF	20%	10V	D301	8-719-987-63		1N4148M	
	1-126-176-11		220uF	20%	10V	D302	8-719-010-33	DIODE	UZ-4. 7BSB	
	1-124-925-11		2. 2uF	20%	100V					
C1344	1-124-443-00	ELECT	100uF	20%	10V	D303	8-719-210-21		11EQS04	
						D304	8-719-987-63		1N4148M	
C1349	1-124-916-11	ELECT	22uF	20%	63V	D305	8-719-987-63		1N4148M	
					(AEP, UK, IT, C				1N4148M	
C1350	1-124-916-11	ELECT	22uF	20%	63V		8-719-510-68	DIODE	D5SBA20F01	
					(AEP, UK, IT, C					
	1-164-159-11		0. 1uF		50V		8-719-200-82		11ES2	
	1-164-159-11		0. 1uF		50V		8-719-200-82		11ES2	
C1371	1-124-122-11	ELECT	100uF	20%	50V (UK, EE, CIS	•	8-719-200-82		11ES2	
					/ DD 07/		8-719-200-82		11ES2	
	1-124-122-11		100uF	20%	50V (UK, EE, CIS		8-719-200-82	DIODE	11ES2	
	1-126-105-11		1000uF	20%	35V (UK, EE, CIS		0 710 000 00	DIADE	11000	
	1-124-478-11		100uF	20%	25V		8-719-200-82		11ES2	
	1-124-477-11		47uF	20%	25V		8-719-987-63		1N4148M	
C1385	1-164-159-11	CERAMIC	0. 1uF		50V (IT, G)		8-719-200-82		11ES2	
		ODD INTO	0 1 7		FOU (IT ()		8-719-200-82		11ES2	
	1-164-159-11		0. luF	000	50V (IT, G)	D1318	8-719-987-63	DIODE	1N4148M	
C1387	1-161-379-00	CERAMIC	0. 01uF	20%	25V (IT, G)	21010	0.710.000.00	DIODE	11000	
							8-719-200-82		11ES2	
		< FILTER >					8-719-200-82		11ES2	
		D.1. WDD 00	DIMEG				8-719-200-82		11ES2	
CF1	1-567-389-11						8-719-200-82		11ES2	
CF2	1-567-389-11			(C)		D1323	8-719-200-82	DIODE	11ES2	
CF3	1-567-389-11			, u)		D1004	0 710 000 00	DIODE	11502	
CF4	1-527-981-00						8-719-200-82		11ES2	
CF5	1-577-075-11	USCILLATOR	, CERAMIC			•	8-719-200-82		11ES2	
CD4	1 760 000 11	DITTED OF	DAMIC		turn in the great		8-719-200-82 8-719-200-82		11ES2	
CF6	1-760-220-11	riliek, CE	NAMIC			1			11ES2 11ES2	
		COMMECTO	D \			D1333	8-719-200-82	DIODE	11506	
		< CONNECTO	π /			D1995	8-719-200-82	DIODE	11ES2	
业 	1_560 004 11	COCKET CO	NINECTAD 1	ED (AD	P IT C)		8-719-200-82		11ES2 11ES2	
* CN1	1-568-834-11	SUCKEI, CO	INNECTUR I	or (AE	r, 11, 0 <i>)</i>	ספפות	0-113-600-02	DIODE	111.06	

Disary 8-719-867-63 DIDGE	Ref. No.	Part No.	Description Remark	Ref. No.	Part No.	Description	!				Remar	<u>k</u>
Display 8-719-987-63 DIONE IN41488						< COIT >						
1343 8-719-987-63 DIODE												
Diamar 1985 1987	D1342	8-719-987-63	DIODE 1N4148M	1						\		
District Reference District District				1								
Diagrage Record Figs Color Libs L								AEP,	IT, G)			
District District												
Di374 8-719-200-82 DI00E 118S2 (UK, ER, CIS) Li351 1-420-872-00 COIL, AIR-CORE Li351 L-420-872-00 COIL, AIR-CORE L-420-872-00 COIL, AIR-CORE				L302	1-410-322-11	INDUCTOR	3. 3uH					
Liss 1-420-872-00 COIL, AIR-CORE CREATED				7 1001	1 100 000 00	COTT IND C	ann					
D1375 8-719-001-43 D100E UZL-11M1 CFRONTEND	D1374	8-719-200-82	DIODE 11ES2 (UK, EE, CIS)									
FILTER	D1077	. 0 210 001 10	01000 1101 1111	L1351	1-420-872-00	COIL, AIR-C	UKE					
FEI 1-465-007-11 FRONT ERD (4 DAMS) (IT, G) FEI 1-693-009-31 FRONT ERD (4W) (2 CAMG) (AEP, UK) FEI 1-693-009-31 FRONT ERD (4W) (2 CAMG) (AEP, UK) FEI 1-693-209-11 FINTER ERD (3 GAMS) (EE, CIS) FE2 1-239-260-11 ENCAPSULATED COMPONENT (IT, G) FE2 1-239-261-12 ENCAPSULATED COMPONENT (AEP, UK, EE, CIS) C C C S 729-109-76 FRANSISTOR S S S 729-119-76 FRANSISTOR S S S S S S S S S	D1378	8-719-001-43	DIODE UZL-IIMI	0 1		/ DILTED \						
PEI			/ EDONTEND \			· FILIER >						
FEI 1-465-007-11 FRONT END (d. GANK) (TT. G)			TRUNIEND >	I DE1	1-230-507-11	FILTER IOW	PASS					
FEI	DD1	1_465_007_11	EPONT END (4 CANC) (IT C)									
FEI					1 200 001 11	TILIDA, DON	Thoo					
FE2						< TRANSISTO)R >					
FE2		1-239-260-11	FNCAPSHIATED COMPONENT (IT G)			. 101101010						
FE3 1-236-463-11 ENCAPSULATED COMPONENT (AEP, UK, EE, CIS) (IC) (IC)				Ω1	8-729-230-XX	TRANSISTOR	2SC26	690Y	-TPE4			
FE3	100	1 200 201 12	bron bobilibb com brani (nbi y on, bb, cio)								G)	
Q4 8-729-119-6 TRANSISTOR 2531175-HEC (APP, UK, EE, CIS)	FE3	1-236-463-11	ENCAPSULATED COMPONENT (AEP. UK. EE. CIS))
C C Q Q S R-729-900-80 TRANSISTOR DTC114ES (AEP, UK, EE, CIS)	120	1 200 100 11	, , , , , , , , , , , , , , , , , , ,									
IC1			< IC >	-	8-729-900-80	TRANSISTOR	DTC11	4ES	(AEP,	UK, EE,	CIS)	
1												
Total 8-759-1175-87 TC LC7218-ST Q7 8-729-900-80 TRANSISTOR DTC114ES (AEP, UK, EE, CIS) C181 8-759-165-58 TC UPC45SEC (AEP, IT, G) Q5 8-729-900-61 TRANSISTOR DTC114ES (AEP, UK, EE, CIS) DTC13 RESPONSIBLE C182 8-759-825-90 TC LC7073 (AEP, IT, G) Q5 8-729-900-61 TRANSISTOR DTC114ES (AEP, UK, EE, CIS) DTC13 RESPONSIBLE C183 RESPONSIBLE RES	IC1	8-759-176-03	IC LA1835	Q6	8-729-900-80	TRANSISTOR	DTC11	4ES	(AEP,	UK, EE,	CIS)	
Color Colo		8-759-175-87		Q7	8-729-900-80	TRANSISTOR	DTC11	4ES	(AEP,	UK, EE,	CIS)	
1083 8-759-062-26 IC LC7073 (AEP, IT, G) Q61 8-729-202-67 TRANSISTOR 25K246-GR3 10301 8-759-061-65 IC LA5602 Q62 8-729-201-84 TRANSISTOR 25K246-GR3 (AEP, UK, EE, CIS) 10304 8-759-822-09 IC LB1641 Q72 8-729-202-67 TRANSISTOR 25K246-GR3 (AEP, UK, EE, CIS) 10305 8-759-145-58 IC UPC4558C Q301 8-729-119-78 TRANSISTOR 25K246-GR3 (AEP, UK, EE, CIS) 10305 8-759-145-58 IC UPC4558C Q301 8-729-119-78 TRANSISTOR 25K246-GR3 (AEP, UK, EE, CIS) 10306 8-759-145-58 IC UPC4558C Q301 8-729-119-78 TRANSISTOR 25K2403SP-51 10307 8-759-605-00 IC M5578M07L Q303 8-729-900-65 TRANSISTOR 25K2403SP-51 101002 8-759-604-81 IC M5218AP Q1031 8-729-119-78 TRANSISTOR 25K2403SP-51 101003 8-759-604-84 IC M5218AP Q1370 8-729-900-63 TRANSISTOR 25K2403SP-51 101005 8-759-603-78 IC M5289P Q1370 8-729-900-36 TRANSISTOR 25K20212 101005 8-759-603-78 IC M55289P Q1371 8-729-209-15 TRANSISTOR 25K20212 101005 8-759-603-78 IC M5578M07L R2 1-249-411-11 CARBON 330 5% 1/4W 101303 8-759-604-84 IC M5778M07L R3 1-249-409-11 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M5778M12 (AEP, UK, IT, G) R6 1-249-411-11 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M5778M12 (AEP, UK, IT, G) R6 1-249-411-11 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M578M12 (AEP, UK, IT, G) R6 1-249-411-11 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M578M12 (AEP, UK, IT, G) R7 1-247-891-00 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M578M12 (AEP, UK, IT, G) R7 1-247-891-00 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M578M12 (AEP, UK, IT, G) R7 1-249-437-11 CARBON 300 5% 1/4W 101304 8-759-604-93 IC M578M12 (AEP, UK, IT, G) R7 1-247-891-00 CARBON 330 5% 1/4W 101304 8-759-604-93 IC M578M12 (AEP, UK, IT, G) R8 1-249-411-11 CARBON 300 5% 1/4W (IT,	IC81	8-759-145-58	IC UPC4558C (AEP, IT, G)	Q8			DTC11	4ES	(AEP,	UK, EE,	CIS)	
IC301 8-759-061-65 IC LA5602 Q62 8-729-201-84 TRANSISTOR 2SC3112-B 2SC3162-B 2SC3035P-51 2SC4035P-51	IC82	8-759-169-99	IC SAA6579 (AEP, IT, G)	Q55	8-729-900-61	TRANSISTOR						
IC302	IC83	8-759-062-26	IC LC7073 (AEP, IT, G)	Q61	8-729-202-67	TRANSISTOR	2SK24	6-GR	3			
IC302												
IC304 8-759-822-09 IC LB1641 Q72 8-729-201-84 TRANSISTOR 2SC3112-B (AEP, UK, EE, CIS) C1305 8-759-145-58 IC UPC4558C Q301 8-729-119-78 TRANSISTOR 2SC403SP-51 C1306 8-759-605-00 IC M5F78M07L Q303 8-729-900-65 TRANSISTOR DTA144ES C1001 8-759-605-00 IC M5218AP Q1031 8-729-119-78 TRANSISTOR 2SC403SP-51 C1002 8-759-000-48 IC MC14052BCP Q1081 8-729-119-78 TRANSISTOR 2SC403SP-51 C1003 8-759-634-51 IC UPD4053BC Q1341 8-729-900-63 TRANSISTOR 2SC403SP-51 C1004 8-759-634-51 IC M5218AP Q1370 8-729-900-36 TRANSISTOR DTA124ES DTA124												
C305 8-759-145-58 C UPC4558C Q301 8-729-119-78 TRANSISTOR 2SC403SP-51 C306 8-759-145-58 C UPC4558C Q302 8-729-900-65 TRANSISTOR DTA144ES												
C306 8-759-145-58 C UPC4558C Q302 8-729-900-65 TRANSISTOR DTA144ES										, UK, EE	E, CIS)	
IC307 8-759-605-00 IC M5F78M0TL Q303 8-729-900-65 TRANSISTOR DTA144ES C1001 8-759-634-51 IC M5218AP Q1031 8-729-119-78 TRANSISTOR 2SC403SP-51 C1002 8-759-000-48 IC MC14052BCP Q1081 8-729-119-78 TRANSISTOR 2SC403SP-51 C1003 8-759-634-51 IC M5218AP Q1370 8-729-900-63 TRANSISTOR DTA124ES DTA124ES C1004 8-759-634-51 IC M5218AP Q1370 8-729-900-36 TRANSISTOR DTA124ES DTC124ES (AEP, IT, G) C1005 8-759-633-78 IC M5289P C1056 8-759-633-78 IC M5289P C10302 8-759-605-00 IC M5F78M0TL C1302 8-759-604-95 IC M5F78M0TL C1303 8-759-604-84 IC M5F7806L R3 1-249-401-11 CARBON 330 5% 1/4W C1303 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) Arg 1-249-402-11 CARBON 220 5% 1/4W F IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) Arg 1-249-402-11 CARBON 330 5% 1/4W F IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) Arg 1-249-402-11 CARBON 330 5% 1/4W F IC1304 8-759-111-68 IC UPC1237HA IC IC IC IC IC IC IC I									10			
IC1001 8-759-634-51 IC M5218AP Q1031 8-729-119-78 TRANSISTOR ZSC403SP-51 C1002 8-759-000-48 IC MC14052BCP Q1081 8-729-119-78 TRANSISTOR ZSC403SP-51 C1003 8-759-140-53 IC UPD4053BC Q1371 8-729-900-63 TRANSISTOR DTA124ES DTA124E	IC306	8-759-145-58	IC UPC4558C	Q302	8-729-900-65	TRANSISTOR	DIA14	4ES				
IC1001 8-759-634-51 IC M5218AP Q1031 8-729-119-78 TRANSISTOR ZSC403SP-51 C1002 8-759-000-48 IC MC14052BCP Q1081 8-729-119-78 TRANSISTOR ZSC403SP-51 C1003 8-759-140-53 IC UPD4053BC Q1371 8-729-900-63 TRANSISTOR DTA124ES DTA124E			TO MEDITOMORI	0000	0 700 000 05	TDANCICTOD	DTALA	AEC.				
Clord S-759-00-48 C												
C1003 8-759-140-53 C												
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Cloop				4					(AEP.	IT. G)		
IC1006 8-759-633-78 IC M5289P IC1056 8-759-633-78 IC M5289P IC1301 8-759-605-00 IC M5F78M07L IC1302 8-759-604-95 IC M5F79M07L IC1303 8-759-604-84 IC M5F7806L IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) IC1341 8-759-111-68 IC UPC1237HA <pre></pre>	10100	74 0 733 034 31	i mozioni	410.0	0 120 000 00	TRANSPORT	21014	ILO	(ildi,	11, 0,		
IC1006 8-759-633-78 IC M5289P IC1056 8-759-633-78 IC M5289P IC1301 8-759-605-00 IC M5F78M07L IC1302 8-759-604-95 IC M5F79M07L IC1303 8-759-604-84 IC M5F7806L IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) IC1341 8-759-111-68 IC UPC1237HA <pre></pre>	IC100	05 8-759-081-01	IC NJU7305L	01371	8-729-209-15	TRANSISTOR	2SD20	12				
IC1056 8-759-633-78 IC M5289P				1								
IC1301 8-759-605-00 IC M5F78M07L IC1302 8-759-604-95 IC M5F79M07L R1 1-249-411-11 CARBON 330 5% 1/4W IC1303 8-759-604-84 IC M5F7806L R3 1-249-409-11 CARBON 220 5% 1/4W F IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) IC1341 8-759-111-68 IC UPC1237HA Carron Carron						< RESISTOR	>					
R1												
R2			· ·	R1	1-249-411-11	CARBON	330	5%	1/4W			
IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) IC1341 8-759-111-68 IC UPC1237HA AR4				R2	1-249-411-11	CARBON	330	5%	1/4W			
IC1304 8-759-604-39 IC M5F78M12 (AEP, UK, IT, G) IC1341 8-759-111-68 IC UPC1237HA AR4	IC136	3 8-759-604-84	IC M5F7806L	R3						F		
R6	IC130	04 8-759-604-39	IC M5F78M12 (AEP, UK, IT, G)	⚠ R4	1-249-402-11	CARBON	56	5%	1/4W	F		
R7 1-247-891-00 CARBON 330K 5% 1/4W (1T, G) R8 1-249-411-11 CARBON 330 5% 1/4W (1T, G) R8 1-249-405-11 CARBON 100 5% 1/4W F 1/249-437-11 CARBON 1/249-439-11 CARBON 1/249-439-11 CARBON 1/249-439-11 CARBO	IC13	11 8-759-111-68	IC UPC1237HA	R5	1-247-891-00	CARBON	330K	5%	1/4W			
R7 1-247-891-00 CARBON 330K 5% 1/4W (1T, G) R8 1-249-411-11 CARBON 330 5% 1/4W (1T, G) R8 1-249-405-11 CARBON 100 5% 1/4W F 1/249-437-11 CARBON 1/249-439-11 CARBON 1/249-439-11 CARBON 1/249-439-11 CARBO												
R8			< IFT >	1								
* J1001 1-580-912-11 JACK, PIN 4P (PHONO/VIDEO) * J1001 1-580-912-11 JACK, PIN 4P (PHONO/VIDEO) * J1001 1-580-912-11 CARBON 10K 5% 1/4W												
<pre></pre>	IFT1	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)									
* J1001 1-580-912-11 JACK, PIN 4P (PHONO/VIDEO) R12 1-249-429-11 CARBON 10K 5% 1/4W										F		
			< JACK >	R10	1-249-437-11	CARBON	47K	5%	1/4W			
		1 500 010 11	TACK DIN 4D (DUONO (UTDEO)	D10	1 040 400 11	CADDON	1.07	Γ 0 /	1 / Am			
J12U2 1-303-13U-11 JACA, FIN 2F (SURRUUND SPEARER) K13 1-243-442-11 CARBUN												
	J1202	1-203-130-11	JACA, FIN 2F (SURROUND SPEAKER)	1 KT2	1-243-444-11	CARDON	210	J /0	1/41			_

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
A D14	1-249-403-11	CADDON	68	E9/	1/4W F	R69	1-247-807-31	CADRON	100.	E9/	1/4W
<u>^</u> R14 R16	1-249-403-11		10K		1/4W	R71	1-249-423-11				1/4W F
R17	1-247-842-11		3K		1/4W						(AEP, UK, EE, CIS)
						R72	1-249-433-11	CARBON	22K	5%	1/4W
R18	1-249-429-11	CARBON	10K		1/4W						(AEP, UK, EE, CIS)
R19	1-249-441-11		100K		1/4W	R73	1-249-414-11	CARBON	560	5%	1/4W F
R20	1-249-435-11		33K		1/4W	57.4	3 040 435 33	CARROW	117	F 0/	(AEP, UK, EE, CIS)
R21	1-249-441-11		100K			R74	1-249-417-11	CARBON	1K	5%	1/4W F
R22	1-249-437-11	CARBON	47K	5%	1/4W						(AEP, UK, EE, CIS)
R23	1-249-399-11	CARRON	33	5%	1/4W F	R75	1-249-410-11	CARBON	270	5%	1/4W F
R24	1-249-425-11		4. 7K		1/4W F		1 210 110 11	Cinizon	2.0	0,0	(AEP, UK, EE, CIS)
1.51	1 210 100 11	0.11.201			(AEP, UK, EE, CIS)	R76	1-249-421-11	CARBON	2. 2K	5%	1/4W F
R25	1-249-429-11	CARBON	10K	5%	1/4W						(AEP, UK, EE, CIS)
					(AEP, UK, EE, CIS)	R77	1-249-425-11	CARBON	4.7K	5%	1/4W F
R26	1-249-429-11		10K		1/4₩						(AEP, UK, EE, CIS)
R27	1-249-429-11	CARBON	10K	5%	1/4W	R78	1-247-807-31	CARBON	100	5%	1/4
B00	1 040 400 11	CADDON	101/	rα	1 / 417	D01	1 040 441 11	CADDON	1007	ΓN	(AEP, UK, EE, CIS)
R30	1-249-429-11	CARBON	10K	5%	1/4W (AEP, UK, EE, CIS)	R81	1-249-441-11	CARBON	100K	5%	1/4W (AEP, IT, G)
R31	1-249-429-11	CARRON	10K	5%	1/4W	R82	1-249-441-11	CARRON	100K	5%	1/4W (AEP, IT, G)
Koi	1 243 423 11	CARDON	Ton	070	(AEP, UK, EE, CIS)	R83	1-249-433-11		22K		1/4W (AEP, IT, G)
R32	1-249-433-11	CARBON	22K	5%	1/4W	R84	1-249-426-11				1/4W (AEP, IT, G)
Ros	1 210 100 11	Cimbon	-	0,0	(AEP, UK, EE, CIS)	R85	1-249-421-11	-			1/4W F (AEP, IT, G)
R33	1-247-903-00	CARBON	1M	5%	1/4W	R86	1-249-429-11		10K		1/4W (AEP, IT, G)
					(AEP, UK, EE, CIS)						
R34	1-249-437-11	CARBON	47K	5%	1/4W	R301	1-249-429-11		10K		1/4W
					(AEP, UK, EE, CIS)	R302	1-249-429-11		10K		1/4W
				=0/		R318	1-249-417-11		1K		1/4W F
R35	1-249-423-11				1/4W F	R319	1-249-417-11		1K		1/4W F
R36	1-249-423-11		3. 3K 5. 6K		1/4W F	R320	1-247-852-11	CARBUN	7.5K	5%	1/4W
R45 R46	1-249-426-11 1-249-426-11		5. 6K		1/4W 1/4W	R321	1-247-852-11	CARRON	7.5K	592	1/4W
R47	1-249-408-11		180		1/4W F (AEP, IT, G)	R322	1-247-852-11		7. 5K		
N41	1 240 400 11	Childon	100	070	1/48 1 (1121,11,0)	R323	1-247-852-11		7. 5K		
R48	1-249-423-11	CARBON	3. 3K	5%	1/4W F (UK, EE)	R324	1-249-431-11		15K		1/4W
R48	1-249-429-11	CARBON	10K	5%	1/4₩	R325	1-249-431-11	CARBON	15K	5%	1/4W
					(AEP, IT, G, CIS)						
R49	1-249-423-11		3. 3K		1/4W F	R326	1-249-431-11		15K		1/4W
<u></u> 1 1 1 1 1 1 1 1 1 1	1-249-401-11		47		1/4W F	R327	1-249-431-11		15K		1/4W
R51	1-249-417-11	CARBON	1K	5%	1/4W F	R328	1-249-419-11				1/4W F
DE 2	1_2/0_/17_11	CAPRON	1 V	592	1/4W F	R329 R330	1-249-419-11 1-249-419-11				1/4W F 1/4W F
R52 R53	1-249-417-11 1-249-417-11		1K 1K		1/4W F	KOOU	1-440-410-11	CARDON	I. JI	J/0	1/411 1
R54	1-249-417-11		1K		1/4W F	R331	1-249-419-11	CARBON	1. 5K	5%	1/4W F
R56	1-249-425-11		4. 7K		1/4W F	R332	1-249-441-11		100K		
R57	1-249-417-11		1K		1/4W F	R333	1-249-441-11		100K		
						R336	1-249-418-11	CARBON			1/4W F
R58	1-249-417-11	CARBON	1K		1/4W F	R337	1-249-418-11	CARBON	1. 2K	5%	1/4W F
<u></u> ₹R60	1-249-405-11		100		1/4W F						
R61	1-249-423-11		3. 3K		1/4W F	R338	1-249-417-11		1K		1/4W F
R62	1-249-425-11				1/4W F	R339	1-249-429-11		10K		1/4W
R63	1-249-414-11	CARBUN	560	3%	1/4W F		1-249-417-11 1-247-903-00		1K 1M		1/4W F 1/4W
R64	1-249-417-11	CARBON	1K	5%	1/4W F	1	1-247-903-00		220		1/4W F (IT, G)
R65	1-249-410-11		270		1/4W F		- 5.0 100 11	Canada.		070	-/ -11 2 () 0/
R66	1-249-421-11				1/4W F	R1011	1-249-417-11	CARBON	1K	5%	1/4W F (IT, G)
R67	1-249-425-11				1/4W F		1-249-417-11		1K		1/4W F
R68	1-249-425-11	CARBON	4.7K	5%	1/4W F		1-249-437-11		47K		1/4W
						R1014	1-249-416-11	CARBON	820	5%	1/4W F

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description					Remark	Ref. No.	Part No.	Description					Remark
R1015	1-247-897-11	CARBON	560K	5%	1/4W			R1344	1-249-427-11	CARBON	6. 8K	5%	1/4W	F	
									1-249-427-11				1/4W		
R1016	1-249-437-11	CARBON	47K	5%	1/4₩								,		
	1-249-409-11		220		1/4\	F		R1346	1-249-438-11	CARBON	56K	5%	1/4W		
	1-249-441-11		100K						1-249-437-11		47K	5%	1/4W		
	1-249-437-11		47K		1/4W				1-249-429-11		10K	5%	1/4W		
R1023	1-249-437-11	CARBON	47K	5%	1/4₩				1-249-429-11		10K	5%	1/4W		
								R1363	1-249-389-11	CARBON	4.7	5%	1/4W	F	
	1-249-427-11				1/4W	F									
	1-249-441-11		100K			_			1-249-389-11		4. 7		1/4W		
	1-249-427-11				1/4W				1-249-417-11		1K				P, IT, G)
K1031	1-249-425-11	CARBON	4. 7K	5%	1/4W				1-249-423-11		3. 3K		1/4W		
D1000	1 047 050 11	CADDON	P 17	F0/		(AE	P, UK, G, IT)		1-215-890-11			5%	2W	F (UK))
K1036	1-247-852-11	CARBON	7. 5K	5%	1/4%			₩1380	1-215-891-11	METAL OXIDE	680	5%		F	
D1020	1-249-425-11	CADDON	4 7V	EW	1 / AW	12							(AEP,	IT, G, I	EE, CIS)
	1-249-441-11		100K		1/4W	r		D1201	1 040 410 11	CADDON	070	E0/	1 / / 777	-	
	1-249-441-11		270K						1-249-410-11		270		1/4W		
	1-249-433-11		22K		1/4W				1-249-410-11 1-249-410-11		270		1/4W	_	
	1-249-433-11		22K		1/4W				1-249-410-11		270		1/4W		
11042	1 243 455 11	CARDON	LLIN	3/0	1/4#				1-249-410-11		270 4.7		1/4W 1/4W		C)
R1043	1-249-433-11	CARBON	22K	5%	1/4W			W1303	1-245-305-11	CANDON	4. /	3/b	1/4	r (11,	G)
	1-249-433-11		22K		1/4W			R1386	1-249-389-11	CARRON	4. 7	5%	1/4W	r /ir	C)
	1-249-413-11				1/4₩	F		N1000	1 240 000 11	CARDON	4. 1	3/0	1/4#	r (11,	u)
	1-249-413-11		470		1/4W					< VARIABLE F	PPCICT	OR >			
	1-249-413-11		470		1/4W					· vincinobb i	LOTOI	Oit /			
					•			RV1	1-238-601-11	RES. ADJ. C/	ARBON	2.2K			
R1048	1-249-429-11	CARBON	10K	5%	1/4W			RV2	1-238-600-11						
	1-249-417-11		1K	5%	1/4W	F				,,					
R1052	1-247-903-00	CARBON	1M		1/4W					< RELAY >					
R1058	1-249-409-11	CARBON	220	5%	1/4W	F	(IT, G)								
R1061	1-249-417-11	CARBON	1K	5%	1/4W	F ((IT, G)	RY1201	1-515-920-11	RELAY (24V)					
	1-249-417-11		1K		1/4W	F				< TRANSFORME	CR >				
	1-249-437-11		47K		1/4₩										
	1-249-416-11		820		1/4W	F		T1	1-235-126-00	ENCAPSULATED	COMP	ONENT	(IT, G)	
	1-247-897-11		560K				2								
K1066	1-249-437-11	CARBON	47K	5%	1/4W					< TERMINAL >	•				
R1067	1-249-409-11	CARBON	220	5%	1/4W	F		* TM1	1-537-264-11	TERMINAL BOA	RD (Al	NTENN	IA) (UK)		
R1068	1-249-441-11	CARBON	100K	5%	1/4W			* TM1	1-537-288-11) (ANTE	(NNA)
R1071	1-249-437-11	CARBON	47K	5%	1/4W						1.		(AEP,		
	1-249-437-11		47K					* TM1301	1-537-327-11	TERMINAL BOA	RD (SI				
R1074	1-249-427-11	CARBON	6. 8K	5%	1/4W	F									
D1075	1-249-441-11	CADDON	1007	ΕØ	1 / AW					< VIBRATOR >	•				
	1-249-427-11		100K			E.		VI	1 570 000 01	VIDDIMOD OD	WOM LT			(1DD =	en en\
	1-245-427-11		7. 5K		1/4W	r		X1	1-579-900-21	VIBRATOR, CR	YSTAL	(4. 3	(32MHz)	(AEP, I	T, G)
	1-249-425-11				1/4W	E		X2	1-577-358-21	VIBRATOR, CE	RAMIC	(4MH	IZ) (AEP	, IT, G)	
	1-249-441-11		100K			T.		XT51	1-577-126-31	VIBRAIUR, CR	ISTAL	(1. 2	MHZ)		
11003	1 240 441 11	Childon	1001	3/0	1/4#			******	******	*****		سا ماه ماه ماه ما	نات بات بات بات بات بات	ماد باد باد باد باد باد	alterale alterale alterale
R1090	1-247-889-00	CARBON	270K	5%	1/4W			• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		TTTTT	rጥተቶች	ተተቀ ቶች	ጥጥጥ ች ች	ጥጥጥጥችች
	1-249-389-11				1/4W										
	1-249-389-11				1/4₩										
	1-249-389-11				1/4₩		IT, G)								
	1-249-389-11				1/4₩										
						,									
	1-249-429-11		10K												
	1-249-441-11		100K												
R1343	1-249-436-11	CARBON	39K	5%	1/4W										

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

MAIN TC

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*	A-4365-150-A	MAIN TC BOARD, ********					1-580-783-11 1-580-783-11		OARD TO BOARD		
*	A-4365-942-A	MAIN TC BOARD, *********				* CN908	1-568-850-11	SOCKET, CONN			
*	4-942-204-01	PLATE, GROUND				* CN910	1-568-850-11 1-568-852-11 1-568-856-11	SOCKET, CONN	ECTOR 9P		
		< CAPACITOR >				* CN912	1-568-449-11	HOUSING, CON	NECTOR (PC BOAR	RD) 3P	
C722	1-137-368-11	FILM	0.0047uF	5%	50V						
C723	1-162-291-31		560PF	10%	50V			< DIODE >			
C726	1-137-399-11		0. 1uF	5%	50V						
C727	1-126-791-11		10uF	20%	35V	D901	8-719-987-63	DIODE 1N41	48M		
C728	1-124-903-11		luF	20%	50V	D902	8-719-987-63	DIODE 1N41	48M		
0.20	2 121 000 11					D903	8-719-987-63	DIODE 1N41	48M		
C729	1-124-465-00	ELECT	0. 47uF	20%	50V	D904	8-719-987-63	DIODE 1N41	.48M		
C730	1-124-907-11		10uF	20%	50V	D905	8-719-987-63	DIODE 1N41	.48M		
C731	1-164-159-11		0. 1uF		50V						
C732	1-126-791-11		10uF	20%	35V			< IC >			
C741	1-124-903-11		luF	20%	50V						
						IC901	8-759-098-75	IC HA12171	.NT		
C742	1-126-791-11	ELECT	10uF	20%	35V	IC902	8-759-250-60	IC M50964-	·261FP		
C822	1-137-368-11	FILM	0.0047uF	5%	50V	IC903	8-759-635-63				
C823	1-162-291-31	CERAMIC	560PF	10%	50V	IC904	8-759-266-35	IC TA8242K			
C826	1-137-399-11	FILM	0. 1uF	5%	50V						
C827	1-124-907-11	ELECT	10uF	20%	50V			< TRANSISTOR	? >		
C828	1-124-903-11	ELECT	luF	20%	50V	Q701	8-729-119-78		2SC403SP-51		
C829	1-124-902-00		0. 47uF	20%	50V	Q801	8-729-119-78		2SC403SP-51		
C830	1-124-907-11	ELECT	10uF	20%	50V	Q901	8-729-900-65	TRANSISTOR	DTA144ES		
C831	1-161-377-00	CERAMIC	0.0047uF	20%	16V	Q902	8-729-900-89		DTC144ES		
C832	1-161-375-00	CERAMIC	0. 0022uF	20%	50V	Q903	8-729-900-89	TRANSISTOR	DTC144ES		
			0.45.5	000/	F011	0004	0.700.000.05	TRANCICTOR	DTALLARC		
C833	1-124-902-00		0. 47uF	20%	50V	Q904	8-729-900-65 8-729-119-78		DTA144ES 2SC403SP-51		
C841	1-124-903-11		luF	20%	50V	Q905 Q906	8-729-119-76		2SB1068-L		
C842	1-124-907-11		10uF	20%	50V		8-729-116-56		2SB1068-L		
C901	1-124-443-00		100uF	20%	10V	Q907	8-729-900-65		DTA144ES		
C902	1-124-471-00) ELECI	1000uF	20%	6. 3V	Q908	0-129-900-03	INMISISION	DIAI44ES		
C903	1-124-443-00	FIFCT	100uF	20%	107	Q909	8-729-900-89	TRANSISTOR	DTC144ES		
C903	1-124-443-00		10uF	20%	50V	Q910	8-729-900-65		DTA144ES		
C910	1-124-907-11		10uF	20%	50V	4010	J U U U U		 		
C911	1-124-120-11		220uF	20%	25V			< RESISTOR >	•		
C914	1-124-584-00		100uF	20%	107						
0014	1 101 001 00					R720	1-215-451-00	METAL	18K 1%	1/6W	
C916	1-124-443-00	ELECT	100uF	20%	10V	R721	1-249-430-11		12K 5%	1/4W	
C917	1-124-443-00		100uF	20%	107	R722	1-249-431-11		15K 5%	1/4W	
C918	1-124-443-00		100uF	20%	10V	R723	1-249-425-11		4.7K 5%	1/4W	F
C956	1-162-290-31		470PF	10%	50V	R724	1-249-428-11		8. 2K 5%	1/4W	
C957	1-162-290-31		470PF	10%	50V						
0001	01				-	R725	1-249-429-11	CARBON	10K 5%	1/4₩	
C958	1-164-159-11	LCERAMIC	0. 1uF		50V	R727	1-249-429-11		10K 5%	1/4W	
C959	1-164-159-11		0. 1uF		50V	R730	1-249-429-11	CARBON	10K 5%	1/4W	
		-				R731	1-249-425-11	CARBON	4.7K 5%	1/4W	F
		< CONNECTOR >				R732	1-249-429-11	CARBON	10K 5%	1/4W	
* CN901	1-568-945-11	PIN, CONNECTOR	7P			R733	1-249-429-11	CARBON	10K 5%	1/4W	
CN902	1-764-342-11	I PIN, CONNECTOR	(PCB) (L TY	PE) 5P		R734	1-249-429-11		10K 5%	1/4W	
CN904	1-764-339-11	PIN, CONNECTOR	(PCB) (L TY	PE) 2P		R735	1-247-864-11	CARBON	24K 5%	1/4W	

MAIN TC MD-A

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R736	1-249-429-11	CARRON	10K	5%	1/4W		R937	1-249-429-11	CARBON	10K	5%	1/4W	
R737	1-249-429-11		10K	5%	1/4₩		R938	1-249-429-11		10K	5%	1/4W	
KIOI	1 010 100 11	O'MEDO!!			_,							_,	
R738	1-249-429-11	CARBON	10K	5%	1/4₩		R939	1-249-429-11	CARBON	10K	5%	1/4W	
R741	1-249-421-11		2. 2K	5%	1/4W	F	R940	1-249-429-11	CARBON	10K	5%	1/4W	
R742	1-249-428-11		8. 2K		1/4₩		R941	1-249-429-11	CARBON	10K	5%	1/4W	
R743	1-247-840-00	CARBON	2. 4K	5%	1/4W		R942	1-249-441-11	CARBON	100K	5%	1/4W	
R744	1-249-433-11	CARBON	22K	5%	1/4W		R943	1-249-441-11	CARBON	100K	5%	1/4W	
R745	1-249-417-11	CARBON	1K	5%	1/4W	F	R958	1-247-807-31		100	5%	1/4W	
R821	1-249-430-11	CARBON	12K	5%	1/4W		R959	1-249-381-11		1	5%	1/4W	
R822	1-249-431-11		15K	5%	1/4\		R960	1-249-381-11		1	5%	1/4W	F
R823	1-249-425-11		4. 7K		1/4W		R968	1-247-807-31		100	5%	1/4W	
R824	1-249-428-11	CARBON	8. 2K	5%	1/4W	F	R969	1-249-381-11	CARBON	1	5%	1/4W	F
		O. P.P.O.V.	1007	F0/	1 / 477		D050	1 0/0 001 11	CARRON	,	ΕN	3 / 457	
R825	1-247-882-11		130K		1/4W		R970	1-249-381-11		100	5%	1/4₩	r
R826	1-247-866-11		30K	5%	1/4W		R971	1-249-429-11	-	10K 4.7K	5%	1/4W 1/4W	ъ
R829	1-249-429-11			5%	1/4		R972 R973	1-249-425-11 1-249-434-11		27K	5%		Г
R830	1-249-432-11		18K	5%	1/4W			1-249-434-11				1/4W	
R831	1-247-885-00	CARBUN	180K	5%	1/4W		R974	1-249-429-11	CARDON	10K	5%	1/4W	
R841	1-249-421-11	CARRON	2. 2K	5%	1/4₩	F	R976	1-249-425-11	CARRON	4. 7K	5%	1/4W	F
R842	1-249-428-11		8. 2K		1/4W		R977	1-249-434-11		27K	5%	1/4W	
R843	1-247-840-00		2. 4K		1/4W	•	NOT 1	1 240 404 11	CARLEDON	2111	070	1/11	
R844	1-249-433-11		22K	5%	1/4₩				< VARIABLE RESI	STOR >			
R845	1-249-417-11		1K	5%	1/4W	F			· · · · · · · · · · · · · · · · · · ·	01011			
ROTO	1 240 411 11	CIMPON	***	0,0	-/ - "		RV701	1-230-496-11	RES, ADJ, CARBO	N 10K			
R901	1-247-807-31	CARBON	100	5%	1/4₩				RES, ADJ, CARBO				
R902	1-249-389-11		4. 7	5%	1/4₩	F			,,				
R907	1-249-429-11		10K	5%	1/4W				< VIBRATOR >				
R908	1-247-903-00		1M	5%	1/4W								
R909	1-247-895-00		470K		1/4W		X901	1-577-358-21	VIBRATOR, CERAM	IC (4M	Hz)		
R910	1-247-895-00	CARBON	470K		1/4W		******	*********	******	*****	*****	*****	*****
R911	1-249-410-11	CARBON	270	5%	1/4W								
R912	1-249-410-11	CARBON	270	5%	1/4W	F	*	A-2006-623-A	MD-A BOARD, COM	PLETE	(RA12/	AL)	
R914	1-249-411-11		330	5%	1/4₩				******	*****	*****	***	
R915	1-249-411-11	. CARBON	330	5%	1/4W				4 CADACTEOD >				
D015	1 040 411 11	CARRON	020	FW	1 / 400				< CAPACITOR >				
R917	1-249-411-11		330	5%	1/4₩	D	611	1 100 101 00	CEDAMIC CIUD	20000	-	-0/	FOI
R918	1-249-417-11		1K	5%	1/4W	r	C11		CERAMIC CHIP	390PF			50V
R919	1-249-429-11		10K	5%	1/4W		C12	1-136-157-00 1-124-234-00		0, 022i 22uF			50V
R920	1-249-429-11		10K 2. 2K		1/4W 1/4W	E.	C13 C18		CERAMIC CHIP	100PF			16V 50V
R921	1-249-421-11	CARDON	2. 2n	376	1/41	Г	C21		CERAMIC CHIP	390PF			50V 50V
D022	1-249-421-11	CADRON	2. 2K	594	1/4W	F	C21	1-103-131-00	CERAMIC CITT	3301 F		2/0	301
R922 R923	1-249-421-11	-	10K	5%	1/4		C22	1-136-157-00	FILM	0. 022	F F	5%	50V
R926	1-249-429-11		10K	5%	1/4W		C23	1-124-234-00		22uF			16V
R927	1-249-425-11		4. 7K			F	C28		CERAMIC CHIP	100PF			50V
R928	1-249-429-11		10K	5%	1/4W	•	C31	1-124-234-00		22uF			16V
11,020	1 270 700 11	. Ombon	7011	010	4/ 11/		C32	1-124-234-00		22uF			16V
R929	1-249-415-11	CARBON	680	5%	1/4W	F							
R930	1-249-414-11		560	5%	1/4W		C72	1-124-499-11	ELECT, NONPOLAR	1uF	. 2	20%	50 V
R931	1-249-415-11		680	5%	1/4W				,				
R932	1-249-429-11		10K	5%	1/4W				< CONNECTOR >				
R933	1-249-415-11		680	5%	1/4W	F							
									CONNECTOR, BOAR		DARD		
R934	1-249-429-11	CARBON	10K	5%	1/4W				SOCKET, CONNECT				
R935	1-249-415-11		680	5%	1/4W	F			PIN, CONNECTOR				
R936	1-249-429-11	CARBON	10K	5%	1/4W		* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL	TYPE)	3P	

MD-A MD-B

Def Ne	Dont No.	Description			Remark	Ref. No.	Part No.	Description			Remark
Ref. No.	Part No.	<u>bescription</u>			Kemark			-			
		< IC >				C23 C24	1-136-153-00 1-126-177-11		0. 01uF 100uF	5% 20%	50V 10V
TC31A	8-759-106-02	IC UPC4570G2				C25	1-124-234-00		22uF	20%	16V
1001	0 100 200 02					C26	1-136-273-91		75PF 390PF	5% 10%	630V 50V
		< JUMPER RESISTOR >	>			C27	1-164-080-11	CERAMIC	390PF	10%	50 V
JW1	1-216-295-00	METAL CHIP 0	5%	1/10W		C28		CERAMIC CHIP	27PF	5%	50V
J\51		METAL GLAZE 0		1/8₩		C31 C32	1-124-234-00 1-124-234-00		22uF 22uF	20% 20%	16V 16V
J₩52		METAL GLAZE 0 METAL GLAZE 0		1/8\ 1/8\		C32	1-124-234-00		22uF	20%	16V
J₩53 J₩54		METAL GLAZE 0		1/8W		C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
		(TRANSFERENCE)			:	C52	1_163_010_00	CERAMIC CHIP	0. 0068uF	10%	50V
		< TRANSISTOR >				C52		CERAMIC CHIP	0. 012uF	10%	50Y
Q71A	8-729-216-22	2 TRANSISTOR 2SA116	62-G			C54	1-136-559-11	FILM	0.0047uF	5%	630V
		4 DDC1070D \				C56			2. 2uF		16V
		< RESISION >				CS1					
R11	1-216-099-00	METAL CHIP 120				C58					
C57 1-164-346-11 CERAMIC CHIP 1uf 16V		301									
								< CONNECTOR >			
	1-216-099-0								D #0 D0+DD		
200	1 010 005 0	APPEAL CUID 10	0 50	1/109	7						
	1-216-025-0	METAL CHIP 10 METAL GLAZE 13				* CNJ72	1-580-411-11	SOCKET, CONNECT	OR 4P		
						* CNP32	1-580-781-11	PIN, CONNECTOR	(PC BOARD)	7P	
	1-216-033-0	0 METAL CHIP 22				* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TYP	E) 3P	
R32	1-216-033-0	0 METAL CHIP 22	0 5%	1/10	Y			< IC >			
R71	1-216-082-0	O METAL GLAZE 24	К 5%	1/10	¥						
R72	1-216-081-0	0 METAL CHIP 22	K 5%	1/10	V						
R73		1 METAL GLAZE 47 1 METAL GLAZE 47		1/10		IC32	8-759-106-02	IC UPC4570G2			
R74	1-216-089-9	1 METAL GLAZE 47	N 3/0	1/101				< JUMPER RESIST	OR >		•
		< VARIABLE RESISTO)R >			7W1	1 216 20500	METAL CHIP	5%	1/10W	
DV114	1_241_761_1	1 RES, ADJ, CARBON 1	K			JW1 JW2		METAL CHIP		1/10W	
RV21A	1-241-761-1	1 RES, ADJ, CARBON 1	.K			JW11	1-216-296-91	METAL GLAZE (1/8W	
RV71A	1-241-630-1	1 RES, ADJ, CARBON 1	.OK			JW12		METAL GLAZE		1/8W	
RV72A	1-241-630-1	1 RES, ADJ, CARBON 1	.OK			J₩13	1-216-296-9	METAL GLAZE (5%	1/8W	
*****	******	*******	*****	*****	******	JW14	1-216-296-91	METAL GLAZE		1/8W	
						JW15		METAL GLAZE		1/8₩	
*	A-2007-134-	A MD-B BOARD, COMPLE				JW16 JW17		METAL GLAZE (METAL GLAZE (1/8W 1/8W	
		***********	******			JW18		METAL GLAZE		1/8W	
		< CAPACITOR >						NOWAL CLASE	F0/	1 /01	
		A CEDANIC CILLD 90	ODE	EQ.	EOV	JW19 JW20		1 METAL GLAZE (1 METAL GLAZE (1/8W 1/8W	
C11 C12			OPF OPF	5% 5%	50V 50V	JW21		METAL GLAZE		1/8W	
C12	1-136-153-0		01uF	5%	50V	J₩22	1-216-296-9	1 METAL GLAZE		1/8W	
C14	1-126-177-1		00uF	20%	10V	J₩23	1-216-296-9	1 METAL GLAZE	5%	1/8W	
C15	1-124-234-0	0 ELECT 22	2uF	20%	16V	JW24	1-216-296-9	1 METAL GLAZE	5%	1/8W	
C16	1-136-273-9	1 FILM 75	5PF	5%	630V	JW25		1 METAL GLAZE		1/8W	
C10 C17	1-164-080-1	1 CERAMIC 39	90PF	10%	50 V	JW26	1-216-296-9	1 METAL GLAZE		1/8W	
C18	1-163-103-0	00 CERAMIC CHIP 27	7PF	5%	50V	J₩27	1-216-296-9	1 METAL GLAZE	5%	1/8W	
C21		• •	OPF	5% 5%	50V 50V						
C22	1-163-117-0	00 CERAMIC CHIP 10	00PF	376	304	1					

MD-B PANEL

F	Ref. No.	Part No.	Description	1		Remark	Ref. No.	Part No.	Description			Remark
			< COIT >				******	******	*******	*******	******	******
	L11 L21	1-410-780-11 1-410-780-11		27mH 27mH			*	A-4369-169-A	PANEL BOARD, ********			
			< TRANSIST	OR >			*	A-4369-303-A	PANEL BOARD, ********	-		
	Q51 Q52 Q53	8-729-011-92 8-729-011-92 8-729-111-29	TRANSISTOR TRANSISTOR	2SC2001TF 2SD1616A-	P-K1K2 -K		*	A-4369-899-A	PANEL BOARD,		- /	
	Q71B	8-729-216-22	< RESISTOR		3				< CAPACITOR >			
			/ nesision				C601	1-124-442-00	FLECT	330uF	20%	6. 3V
	R11	1-216-099-00	METAL CHIP	120K	5% 1/	10W	C602	1-124-442-00		330uF	20%	6. 3V
	R12	1-216-033-00				10W	C603	1-161-379-00		0. 01uF	20%	25V
	R13	1-216-081-00				10W	C604	1-136-169-00		0. 22uF	5%	_50¥
	R14	1-216-075-00				10W	C605	1-164-159-11		0. 1uF	0/0	50V
	R15	1-216-107-00			•	10W	0000	1 101 100 11	CERTIFIC	0. 10.		001
	N13	1 210 107 00	meine ciii	Dion	0/0 1/	1011	C607	1-102-949-00	CERAMIC	12PF	5%	50V
	R16	1-249-430-11	CARRON	12K	5% 1/	ΛW	C608	1-102-945-00		8. 0PF	+-0. 5PF	50V
	R21	1-216-099-00				10W	C609	1-164-159-11		0. 1uF	. 0. 511	50V
	R22	1-216-033-00				10W	C610	1-161-379-00		0. 01uF	20%	25V
	R23	1-216-033-00				10W	C611	1-124-261-00		10uF	20%	50V
						10W	(011	1-124-201-00	ELECT	Tour	20%	507
	R24	1-216-075-00	METAL CHIP	12K	3/0 1/	104	C612	1-164-159-11	CEDANIC	0. 1uF		50V
	DOC	1-216-107-00	METAL CHIE	270K	5% 1/	10W	C612	1-124-903-11		luF	20%	50V
	R25							1-124-903-11			20%	50V
	R26	1-249-430-11		12K			C614	1-164-159-11		luF	20%	
	R31	1-216-033-00				10W	C615			0. 1uF	200	50V
	R32	1-216-033-00				10\	C1101	1-124-589-11	ELECT	47uF	20%	16V
	R33	1-216-073-00	METAL CHIP	10K	5% 1/	10₩	01100	1 100 010 01	ODDANIC	CODD	F M	F077
			C		===	4m P		1-162-219-31		68PF	5%	50V
	R41	1-249-393-11		10		4W F		1-162-282-31		100PF	10%	50V
	R42	1-249-393-11		10		4W F		1-126-157-11		10uF	20%	16V
	R51	1-216-075-00				107		1-124-252-00		0. 33uF	20%	50V
	R52	1-216-075-00				10W	C1107	1-124-463-00	ELECT	0. luF	20%	50V
	R53	1-216-073-00	METAL CHIP	10K	5% 1/	10W	01100	. 100 001 11	D: 000			
								1-126-301-11		luF	20%	50V
	R54	1-216-309-00				10₩		1-126-301-11		luF	20%	50V
	R55	1-216-309-00				10₩		1-124-589-11		47uF	20%	16V
	R56	1-216-298-00				10₩	:	1-162-219-31		68PF	5%	50V
	R71	1-216-082-00	METAL GLAZ			10W	C1153	1-162-282-31	CERAMIC	100PF	10%	50V
	R72	1-216-081-00	METAL CHIP	22K	5% 1/	10W						
							1	1-126-157-11		10uF	20%	16V
	R73	1-216-089-91				10W		1-124-252-00		0. 33uF	20%	50V
	R74	1-216-089-91	METAL GLAZ	E 47K	5% 1/	10₩		1-124-463-00		0. 1uF	20%	50V
							1	1-126-301-11		luF	20%	50V
			< VARIABLE	RESISTOR >		j.	C1159	1-126-301-11	ELECT	luF	20%	50V
	RV11R	1-241-761-11	RES ADI	CARRON 1K			C1501	1-164-159-11	CERAMIC	0. 1uF		50V
		1-238-551-11						1-164-159-11		0. luF		50V
	RV12B	1-241-761-11						1-164-159-11		0. 1uF		50V
	RV21	1-238-551-11						1-126-301-11		luF	20%	50V
		1-230-551-11						1-126-301-11		luF	20%	50V
										, Tur	4070	JU1
	RV72B	1-241-630-11	RES, ADJ,	CARBON 10K				1-164-159-11		0. 1uF		50V
								1-164-159-11		0. luF		50V
			< TRANSFOR	MER >				1-126-157-11		10uF	20%	16V
							C1514	1-126-177-11	ELECT	100uF	20%	10V
	T51	1-406-419-11	COIL, BIAS	OSCILLATION	V		C1515	1-164-159-11	CERAMIC	0. luF		50V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descripti	on		Remark
		CER INTO	0.1		COV.	DIEGO	8-719-046-46	מעוטה כ	SEL5221S-TH8C	(DANCE 2)	
	1-164-159-11		0. luF	100/	50V 50V		8-719-046-46		SEL5221S-TH8C		
	1-162-294-31		0. 001uF 10uF	10% 20%	16V		8-719-046-46		SEL5221S-TH8C		
	1-126-157-11		0. luF	20%	50V		8-719-046-46		SEL5221S-TH8C		
	1-164-159-11		0. 1ur 0. 01uF	20%	16V		8-719-046-46		SEL5221S-TH8C		
C1533	1-162-306-11	CERAMIC	u. utur	20%	101	D1304	0 115 040 40	DIODE C	DEEDEE TO THE	(Decond 12Dit)	
01504	1 104 150 11	CERAMIC	0. 1uF		50V	D1565	8-719-046-46	DIODE S	SEL5221S-TH8C	(MEMORY)	
	1-164-159-11 1-162-306-11		0. 1ur	20%	16V		8-719-046-46		SEL5221S-TH8C		
	1-164-159-11		0. 1uF	20/0	50V		8-719-046-46		SEL5221S-TH8C	,	
	1-162-306-11		0. 01uF	20%	16V		8-719-987-63		N4148M		
C1531	1-102-300-11	CAP, DOUBLE LAY			5. 5V		8-719-987-63		N4148M		
C1336	1 104 505 11	Chi, boobbb bhi	21.0 0.221		0. 0.		•				
C1541	1-126-177-11	ELECT	100uF	20%	10V	D1583	8-719-987-63	DIODE 1	N4148M		
	1-126-301-11		1uF	20%	50V	D1584	8-719-987-63	DIODE 1	N4148M		
	1-126-157-11		10uF	20%	16V	D1585	8-719-987-63	DIODE 1	N4148M		
	1-126-157-11		10uF	20%	16V	D1586	8-719-987-63		N4148M		
						D1587	8-719-987-63	DIODE 1	N4148M		
		< CONNECTOR >						n			
						D1589	8-719-987-63	DIODE 1	N4148M		
CN601	1-750-420-11	CONNECTOR, FFC/	FPC 15P					/ PLHODEC	SCENT INDICATO	ID \	
CN1501	1-750-430-11	CONNECTOR, FFC/	FPC 25P					< FLUORES	SCENI INDICATO	ik >	
		4 COMPOSTATON (IDOUT DIA	CI/ \		EI CO1	1E17_26E_11	INDICATOR	R TUBE, FLUORE	SCENT	
		< COMPOSITION C	IKCUII BLO	Ch >					R TUBE, FLUORE		
CD1E01	1929_00911	COMPOSITION CIR	CULT BLOCK	1.00K		I ILIJOI	1 517 200 21	Indicator	(TODE, TECONE	COLIT	
CP1501	1-232-990-11	COMPOSITION CIP	CHIT BLOCK	100K				< IC >			
CP1502	1-232-990-11	COMPOSITION CIF	CUIT BLOCK	100K							
CP1504	1-232-998-11	COMPOSITION CIF	CUIT BLOCK	100K		IC601	8-759-519-16	IC uPD7	78043GF-079-3E	9	
CI 1304	1 202 330 11	COM COTTON CT	COLL DECOM	20012			8-749-920-83		J52XB		
		< DIODE >					8-759-634-51		18AP		
							8-759-253-53		78042GF056-3B9	1 1 2	
D601	8-719-200-82	DIODE 11ES2				IC1502	8-759-991-11	IC XR10	091DCP		
D602	8-719-987-63		1								
D603	8-719-987-63		1				8-759-635-63		943BSL	2010	
D604	8-719-987-63	B DIODE 1N4148N	A				8-759-917-18		4HCUO4AN		
D1511	8-719-987-63	B DIODE 1N4148N	4				8-759-916-46		4HC139AN		
						IC1507	8-759-917-18	IC SN74	4HCU04AN		
	8-719-987-63							(COII)			
	8-719-987-63							< COIL >			
	8-719-987-63					1.001	1 410 501 11	TAIDUCTOD	100-11		
	8-719-987-63					L601	1-410-521-11				
D1523	8-719-987-63	B DIODE 1N4148	П				1-410-513-11 1-410-513-11				
D1501	0 710 000 00	02411 40010					1-410-513-11				
	8-719-200-82					11331	1 410-021-11	THEOCION	Toodii		
D1532	8-719-200-82 8-719-987-63	2 DIODE 11E52 3 DIODE 1N4148	4					< TRANSIS	STOR >		
	8-719-987-63							· mmon	J. J. ,		
	8-719-987-63					Q601	8-729-119-78	TRANSISTO	OR 2SC403SP-	-51	
ντ292	0-119-901-00	מעטוע כ 104140!	•				8-729-119-78				
D15/1	8-719-987-63	3 DIODE 1N4148	И				8-729-119-78				
	8-719-200-82						8-729-141-26				
	8-719-200-82						8-729-119-78				
	8-719-987-63		vi			,					
	8-719-046-46		 IS-TH8C (VI	DEO)		Q1153	8-729-141-26	TRANSISTO	OR 2SC3622A-	-LK	
21001	3 125 010 11						8-729-119-78			-51	
D1555	8-719-046-46	5 DIODE SEL522	IS-TH8C (TA	PE)			8-729-119-78			-51	
	8-719-046-46		IS-TH8C (CD			Q1545	8-729-900-36	TRANSIST	OR DTC124ES		
	8-719-046-46		IS-TH8C (TU				8-729-900-63				
	8-719-046-46		IS-TH8C (PH								
	8-719-046-46	6 DIODE SEL522	IS-TH8C (HA			Q1551	8-729-119-76	TRANSIST	OR 2SA1175-I	IFE	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description					Remark
		< RESISTOR >					R656	1-249-410-11	CARBON	2	70	5%	1/4₩	F
R602	1-249-417-11	CADDON	1K	5%	1/4W	F	R657	1-249-411-11	CARRON	9	330	5%	1/4W	
							R658	1-249-413-11			170	5%	1/4W	D
R603	1-249-417-11		1K		1/4₩									
R604	1-249-417-11		1K		1/4W		R659	1-249-414-11			60	5%	1/4W	
R605	1-249-417-11	CARBON	1K		1/4₩	F	R660	1-249-416-11			320	5%	1/4W	
R606	1-249-429-11	CARBON	10K	5%	1/4₩		R661	1-249-419-11	CARBON	1	. 5K	5%	1/4W	F
R607	1-249-423-11	CARBON	3. 3K	5%	1/4W	F	R662	1-247-807-31	CARBON	1	100	5%	1/4W	
R608	1-249-421-11	CARBON	2. 2K	5%	1/4W	F	R663	1-249-406-11	CARBON	1	20	5%	1/4W	F
R609	1-249-429-11	CARBON	10K	-5%	1/4W		R664	1-249-406-11	CARBON	1	20	5%	1/4W	F
R610	1-249-417-11	CARBON	1K	5%	1/4W	F	R665	1-247-811-31	CARBON	1	50	5%	1/4W	
R611	1-249-417-11		1K		1/4W		R666	1-249-408-11	CARBON		80	5%	1/4W	F
KOII	1 210 117 11	Childon		0,0	+/ 111	•	1.000	1 210 100 11				070	-711	
R612	1-249-417-11	CARBON	1K	5%	1/4W	F	R667	1-249-409-11	CARBON	- 2	220	5%	1/4W	F
R613	1-249-417-11	CARBON	1K	5%	1/4W	F	R668	1-249-410-11	CARBON	2	270	_5%	1/4	F
R614	1-249-417-11	CARBON	1K	5%	1/4W	F	R669	1-249-411-11	CARBON	3	330	5%	1/4W	
R615	1-249-413-11		470		1/4W		R670	1-249-413-11	CARBON		170	5%	1/4	F
R619	1-249-437-11		47K		1/4	•	R671	1-249-414-11			60	5%	1/4W	
K019	1-245-457-11	CARDON	4111	J 70	1/-4!		ROTI	1 243 414 11	CARDON		,00	370	1/ 11	
R620	1-249-433-11	CARBON	22K	5%	1/4W		R672	1-249-416-11	CARBON	8	320	5%	1/4W	F
R621	1-249-433-11		22K		1/4W		R673	1-249-418-11	CARBON		. 2K		1/4W	
R622	1-249-417-11		1K		1/4W	F	R674	1-249-421-11			2. 2K		1/4W	
	1-249-409-11		220		1/4W		R675	1-249-424-11			3. 9K	5%	1/4W	
R623														
R624	1-249-425-11	CARBON	4. 7K	576	1/4W	r	R676	1-249-441-11	CARBON	1	LOOK	5%	1/4W	(11)
R625	1-249-441-11	CARBON	100K	5%	1/4₩	(AEP, G)	R677	1-249-441-11	CARBON	1	00K	5%	1/4W	(AEP)
R626	1-249-441-11		100K			(IT, G)	R678	1-249-417-11			K	5%	1/4W	
R627	1-249-441-11		100K		1/4₩	(11,0)	R679	1-249-417-11			K	5%	1/4W	
					1/4₩		R680	1-249-417-11			K	5%	1/4W	
R628	1-249-441-11		100K											
R629	1-249-441-11	CARBON	100K	5%	1/4W	(6)	R681	1-249-417-11	CARBON	. 1	K	5%	1/4W	r
R630	1-249-441-11	CARRON	100K	5%	1/4W	(IT, G)	R682	1-249-429-11	CARBON	. 1	OK	5%	1/4W	
R631	1-249-441-11		100K		1/4₩	(11, 0)	1	1-249-417-11			K		1/4₩	F
R632	1-249-441-11		100K		1/4W			1-249-417-11			K	5%	1/4W	
								1-247-903-00			M		•	r
R633	1-249-441-11		100K		1/4₩							5%	1/4W	
R634	1-249-441-11	CARBON	100K	5%	1/4W		K1103	1-249-429-11	CARBON	1	l0K	5%	1/4W	
R635	1-249-441-11	CARBON	100K	5%	1/4W		R1104	1-249-421-11	CARBON	. 2	2. 2K	5%	1/4W	F
R636	1-249-441-11		100K		1/4₩		R1106	1-249-421-11	CARBON		2. 2K		1/4W	
R637	1-249-441-11		100K		1/4W			1-249-434-11			27K	5%	1/4W	-
R638	1-249-441-11		100K		1/4W			1-247-881-00			20K		1/4W	
			1. 5K			D								r.
R640	1-249-419-11	CARBUN	1. 5N	37 6	1/4W	. r	K1109	1-249-427-11	CARDON	t	6. 8K	5%	1/4W	r
R641	1-247-807-31	CARBON	100	5%	1/4W		R1110	1-249-425-11	CARBON	. 4	. 7K	5%	1/4W	F
R642	1-249-406-11		120		1/4W	F		1-249-435-11			3K	5%	1/4₩	
R643	1-249-406-11		120		1/4W			1-249-426-11			6. 6K		1/4W	
R644	1-247-811-31		150		1/4\			1-249-421-11			2. 2K	5%	1/4W	E
						TC.								
R645	1-249-408-11	CARBON	180	5%	1/4W	r	K1114	1-249-412-11	CARBON	đ	390	5%	1/4W	r
R646	1-249-409-11	CARBON	220	5%	1/4W	F	R1151	1-249-417-11	CARBON	1	K	5%	1/4₩	F
R647	1-249-410-11		270		1/4W			1-247-903-00			M	5%	1/4W	
R649	1-249-419-11		1. 5K		1/4₩			1-249-429-11			OK	5%	1/4W	
R650	1-247-807-31		100		1/4₩			1-249-421-11			2. 2K	5%	1/4₩	P
						T.								
R651	1-249-406-11	CARDUN	120	5%	1/4₩	Г	N1156	1-249-421-11	CARDON	2	2. 2K	∂ <i>1</i> 0	1/4W	r.
R652	1-249-406-11	CARBON	120	5%	1/4W	F	R1157	1-249-434-11	CARBON	2	27K	5%	1/4W	
R653	1-247-811-31		150		1/4₩			1-247-881-00			20K		1/4₩	
R654	1-249-408-11		180		1/4₩	F		1-249-427-11			8. 8K		1/4W	E
R655	1-249-409-11		220											
ссол	1-249-409-11	CARDON	440	3/0	1/4W	Г	NTIDU	1-249-425-11	CARDON	4	l. 7K	J/0	1/4W	L

Ref. No	Part No.	Description	on .			Remark	Ref. No.	Part No.	Descript	ion		Remark
R116	61 1-249-435-11	CARBON	33K	5%	1/4₩				< SWITCH	>		
P116	32 1-249-426-11	CARRON	5. 6K	5%	1/4₩		S601	1-554-303-21	SWITCH	TACTITE	(DOWED)	
						17						
	3 1-249-421-11		2. 2K		1/4W		S602	1-554-303-21				
	34 1-249-412-11		390	5%	1/4₩	r	S603	1-554-303-21			• •	
	31 1-249-431-11		15K	5%	1/4W		S604	1-554-303-21			* *	
R150	1-249-384-11	L CARBON	1.8	5%	1/6W	F	S605	1-554-303-21	SWITCH,	TACTILE	(3)	
	2 1-249-384-11		1.8	5%	1/6₩		S606	1-554-303-21				
R15	1 1-249-419-11	CARBON	1. 5K	5%	1/4W	\mathbf{F}	S607	1-554-303-21	SWITCH,	TACTILE	(5)	
R15	2 1-249-393-11	CARBON	10	5%	1/4W	F	S608	1-554-303-21	SWITCH,	TACTILE	(6)	
R15	21 1-249-429-11	CARBON	10K	5%	1/4W		S610	1-554-303-21	SWITCH.	TACTILE	(7)	
	22 1-249-429-11		10K	5%	1/4₩		S611	1-554-303-21				
R15	23 1-249-425-11	CARBON	4. 7K	5%	1/4W	F	S616	1-554-303-21	SWITCH.	TACTILE	(BAND)	
	31 1-249-417-11		1K	5%	1/4W		S617	1-554-303-21				
	32 1-249-423-11		3. 3K		1/4W		S618	1-554-303-21				
						<u> </u>	******					
	33 1-249-429-11		10K	5%	1/4W		S619	1-554-303-21				
итэ	15 1-249-433-11	CARDON	22K	5%	1/4₩		S620	1-554-303-21	Switch,	IACIILE	(STEREO/MONO)	
R15	16 1-249-433-11	CARBON	22K	5%	1/4\		S621	1-554-303-21	SWITCH.	TACTILE	(-)	
	1-249-429-11		10K	5%	1/4W		S622	1-554-303-21				
	52 1-249-425-11		4. 7K		1/4W	D	S623	1-554-303-21				
											• •	
	54 1-249-415-11		680	5%	1/4W		S624	1-554-303-21				
итэ	55 1-249-414-11	CARBON	560	5%	1/4W	r	S627	1-554-303-21	SWIICH,	IACIILE	(PIY)	
R15	66 1-249-415-11	CARBON	680	5%	1/4₩	F	S628	1-554-303-21	SWITCH.	TACTILE	(EON)	
R15	7 1-249-415-11	CARBON	680	5%	1/4W		S629	1-554-303-21	SWITCH.	TACTILE	(DISPLAY)	
R15	8 1-249-415-11	L CARBON	680	5%	1/4W		S630	1-554-303-21				
	9 1-249-415-11		680	5%	1/4W		S631	1-554-303-21				
	33 1-249-429-11		10K	5%	1/4₩		S632	1-554-303-21				
1110	70 1 210 120 11	CARDON	1011	070	1/ 11		0002	1 004 000 21	OWITCH,	INCITED	(ONCL)	
R15	64 1-249-429-11	L CARBON	10K	5%	1/4₩		S633	1-554-303-21	SWITCH,	TACTILE	(TIMER)	
R15	55 1-249-429 - 11	CARBON	10K	5%	1/4W		S634	1-554-303-21	SWITCH,	TACTILE	(CLOCK)	
R15'	1 1-249-429-11	CARBON	10K	5%	1/4W		S636	1-554-303-21	SWITCH.	TACTILE	(+)	
R15	2 1-249-429-11	CARBON	10K	5%	1/4W			1-554-303-21				
	3 1-249-429-11		10K	5%	1/4₩						(CURSOR CONTROL,	DOWN)
												DOMAN
	31 1-247-883-00		150K		1/4₩			1-554-303-21				
	32 1-249-429-11		10K	5%	1/4W		S1554	1-554-303-21	SWITCH,	TACTILE	(CD)	
R15	33 1-247-895-00	CARBON	470K	5%	1/4W		S1555	1-554-303-21	SWITCH,	TACTILE	(TAPE)	
R15	1-247-807-31	CARBON	100	5%	1/4\			1-554-303-21				
R159	2 1-247-807-31	CARBON	100	5%	1/4W						(CURSOR CONTROL,	RIGHT)
DIE	3 1-247-807-31	CADRON	100	E9/	1 / AW		C1FF0	1.554 202 21	CWITCH	TACTITE	(CUDCOD CONTROL	r ppm)
				5% 5%	1/4₩						(CURSOR CONTROL,	LEFI)
	1-247-807-31		100	5%	1/4W	D		1-554-303-21				
	05 1-249-413-11		470	5%	1/4₩			1-554-303-21				
	6 1-249-413-11		470	5%	1/4₩			1-554-303-21				
R159	7 1-249-413-11	CARBON	470	5%	1/4W	F	S1562	1-554-303-21	SWITCH,	TACTILE	(EQ FLAT)	
R159	8 1-249-393-11	CARBON	10	5%	1/4W	F		1-554-303-21				
								1-554-303-21				
		< VARIABLE	E RESISTOR >				S1566	1-554-303-21	SWITCH,	TACTILE	(CURSOR CONTROL,	UP)
								1-554-303-21				
RV1	81 1-223-251-11	RES, VAR.	CARBON 100K	/100K	(SURRO	UND)		1-554-303-21				
	82 1-223-251-11							bi			(, 50,12 0)	
	83 1-223-251-11				(JUD 1)	-124)	\$1560	1-554-303-21	SWITCH '	TACTILE	(POPS 4)	
1111	.00 1 220 201 11	, +1111,			EQUENC	Y (Hz))		1-554-303-21				
RV1	84 1-223-569-11	RES. VAR.				(112))	21310	1 004 000-21	OHIICH,	INCITED	(DOM 3)	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		< VIBRATOR >				C1511	1-164-159-11	CERAMIC	0. 1uF		50V
				\			1-164-159-11		0. 1uF		50V
. X601 X1501	1-760-096-21	VIBRATOR, CRYS	STAL (4, 19 MIC (4, 19	MHz) MHz)		C1513	1-126-157-11	ELECT	10uF	20%	16V
Aloui	2 011 101 11	7151111011, 05111				1	1-126-177-11		100uF	20%	10V
******	******	******	******	*****	******	1	1-164-159-11		0. 1uF		50V
							1-164-159-11		0. 1uF		50 V
*	A-4369-156-A	PANEL BOARD, C		-		C1517	1-162-294-31	CERAMIC	0.001uF	10%	50V
		****	*****	777		C1531	1-126-157-11	FIECT	10uF	20%	16V
*	V=4360=300=V	PANEL BOARD, C	OMPLETE (EE)			1-164-159-11		0. 1uF	20%	50V
Ψ	A 4303 303 A	********					1-164-159-11		0. 1uF		50V
			*******	***		1	1-164-159-11		0. luF		50 Y
*	4-4360-003-4	PANEL BOARD, C	OMPLETE (CIS)			1-104-905-11			F	5. 5V
τ	A 4505 505 A	*********		-							
							1-126-177-11		100uF	20%	10V
		HOLDER, FL TUE	3E				1-126-301-11		1uF	20%	50V
*	4-949-935-21	-CUSHION-(FL)-					1-126-157-11		10uF	20%	16V
						3	1-126-157-11		10uF	20%	16V
		< CAPACITOR >				C1533	1-161-379-00	CERAMIC	0. 01uF	20%	25V (UK)
C601	1-124-442-00		330uF	20%	6. 3V	C1533	1-162-306-11	CERAMIC	0.01uF	20%	16V
C602	1-161-379-00		0. 01uF	20%	25V	01505	1 101 070 00	OPP 444 C	0.01.0	000/	(EE, CIS)
C603	1-124-442-00		330uF	20%	6. 3V		1-161-379-00		0. 01uF	20%	25V (UK)
C605	1-124-916-11		22uF	20%	63V	C1535	1-162-306-11	CERAMIC	0.01uF	20%	16V
C606	1-162-202-31	CERAMIC	13PF	5%	50V	01505	1 101 070 00	OPPLIATO	0.01.10	000/	(EE, CIS)
	1 100 000 01	CDDANIC	1000	50 /	5011	8	1-161-379-00		0. 01uF	20%	25V (UK)
C607	1-162-202-31		13PF	5%	50V	C1537	1-162-306-11	CERAMIC	0. 01uF	20%	16V
C608	1-126-163-11		4. 7uF	20%	50V						(EE, CIS)
C609	1-161-379-00		0. 01uF	20%	25V			4 0011110000			
C610	1-161-379-00		0. 01uF	20%	25V			< CONNECTOR	>		
C613	1-124-903-11	ELECT	luF	20%	50V			00111110000			
		TV 700			F011		1-750-416-11				
C614	1-124-903-11		luF	20%	507	CN1501	1-750-430-11	CONNECTOR,	FFC/FPC 25P		
C615	1-124-442-00		330uF	20%	6. 3V			4 00100001011	an ornoura pr	0017	
	1-124-589-11		47uF	20%	16V			< COMPOSITIO	ON CIRCUIT BL	OCK >	
	1-162-219-31		68PF	5%	50V	+ CDCO1	1 000 010 11	COMPOCITION	CIDCULT DIOC	v :000pr	
C1103	1-162-282-31	CERAMIC	100PF	10%	50V		1-233-216-11 1-239-584-11				
C1104	1 196 157 11	DI DOT	10P	204	16V		1-232-998-11				
	1-126-157-11		10uF 0. 33uF	20% 20%	50V		1-232-998-11				
	1-124-252-00			20%	50V 50V		1-232-998-11				
	1-124-463-00		0. 1uF			CF1503	1-232-990-11	COMPOSITION	CIRCUII BLUC	V 100V	
	1-126-301-11 1-126-301-11		luF luF	20% 20%	50V 50V	CP1504	1-232-998-11	COMPOSITION	CIRCUIT BLOC	K 100K	
			47D	000							
	1-124-589-11		47uF	20%	16V			< DIODE >			
	1-162-219-31		68PF	5%	50V	DOOG	0 710 007 00	DIODD 1111	1.4014		
	1-162-282-31		100PF	10%	50V		8-719-987-63		148M		
	1-126-157-11		10uF	20%	16V	D601	8-719-987-63		148M		
C1156	1-124-252-00	ELECT	0. 33uF	20%	50V	D602	8-719-200-82				
	1 104 400 00	DI DOT	0 1 5	0.004	F031		8-719-987-63				
	1-124-463-00		0. 1uF	20%	50V	D607	8-719-987-63	DIODE 1N4	148M (EE, CIS)		
	1-126-301-11		luF	20%	50V	DOGG	0 710 00= 00	DIODE 1111	140M (PD 070)		
	1-126-301-11		luF	20%	50V	D608	8-719-987-63		148M (EE, CIS)		
	1-164-159-11		0. 1uF		50V	D614	8-719-987-63				
-C1502	1-164-159-11	CERAMIC	0. 1uF	77.7	50V		8-719-987-63				* * * *
01=00	1 104 150 15	ODDANIC	0 1 5		CON		8-719-987-63				
	1-164-159-11		0. 1uF	0.004	50V	D617	8-719-987-63	DIODE 1N4	148M		
	1-126-301-11		luF	20%	50V	D010	0 710 007 00	DIODE 1111	14014		
C1505	1-126-301-11	ELECI	luF	20%	50V	D618	8-719-987-63	DIODE 1N4	148M		

Ref. No.	Part No.	Descript	tion		Remark	Ref. No.	Part No.	Description					Remark
Herr Hor	1010												
D619	8-719-987-63		1N4148M				8-759-635-63						
D620	8-719-987-63		1N4148M				8-759-917-18						
	8-719-987-63		1N4148M				8-759-916-46 8-759-917-18						
D1512	8-719-987-63	DIODE	1N4148M			101507	9-129-311-19	IC SN/4nC	JU4AN				
D1513	8-719-987-63	DIODE	1N4148M					< COIL >					
	8-719-987-63		1N4148M										
	8-719-987-63		1N4148M			L601	1-410-521-11			00uH			
D1523	8-719-987-63	DIODE	1N4148M				1-410-513-11			2uH			
D1531	8-719-200-82	DIODE	11ES2				1-410-513-11			2uH		•	
D1E00	0 710 200 92	DIODE	11ES2			L1531	1-410-521-11	INDUCTOR	. 1	00uH			
	8-719-200-82 8-719-987-63		11E52 1N4148M					< TRANSISTO	? >				
	8-719-987-63		1N4148M					. 111111010101					
	8-719-987-63		1N4148M			Q602	8-729-119-78	TRANSISTOR	2SC4	03SP-51			•
	8-719-987-63		1N4148M			Q1102	8-729-119-78	TRANSISTOR	2SC4	03SP-51			
						Q1103	8-729-141-26	TRANSISTOR	2SC3	622A-LK			
	8-719-200-82		11ES2				8-729-119-78			03SP-51			
	8-719-200-82		11ES2			Q1153	8-729-141-26	TRANSISTOR	2SC3	622A-LK			
	8-719-987-63		1N4148M	(********	•	01501	0.700 110 70	TOANCTOTOD	0004	00CD F1			
	8-719-046-46		SEL5221S-TH8C				8-729-119-78 8-729-119-78			03SP-51 03SP-51			
D1555	8-719-046-46	DIODE	SEL5221S-TH8C	(IAPE)			8-729-900-36		DTC1				
D1556	8-719-046-46	DIODE	SEL5221S-TH8C	(CD)			8-729-900-63		DTA1				
	8-719-046-46		SEL5221S-TH8C				8-729-119-76			175-HFE			
	8-719-046-46		SEL5221S-TH8C										
	8-719-046-46		SEL5221S-TH8C					< RESISTOR	>				
D1560	8-719-046-46	DIODE	SEL5221S-TH8C	(DANCE 2)									
	0.770.040.40	D I ODD	ODI 50010 #1100	(110011 0)		R603	1-249-429-11		10K		1/4W	E.	
	8-719-046-46		SEL5221S-TH8C			R604 R605	1-249-425-11 1-249-441-11		4. 7K 100K		1/4W 1/4W	г	
	8-719-046-46 8-719-046-46		SEL5221S-TH8C SEL5221S-TH8C			R606	1-249-417-11		160K		1/4W	F	
	8-719-046-46		SEL5221S-TH8C			R607	1-249-409-11		220		1/4W		
	8-719-046-46		SEL5221S-TH8C										
						R608	1-249-409-11	CARBON	220	5%	1/4W	F	
	8-719-046-46		SEL5221S-TH8C	(VOLUME)		R609	1-249-409-11		220			F	
	8-719-046-46		SEL5221S-TH8C	(P. FILE)		R611	1-249-421-11		2. 2K		1/4W		
	8-719-987-63		1N4148M			R612	1-249-423-11		3. 3K		1/4W	F	
	8-719-987-63		1N4148M			R613	1-249-441-11	CARBON	100K	5%	1/4W		
D1583	8-719-987-63	DIODE	1N4148M			R614	1-249-441-11	CARRON	100K	5%	1/4W		
D1584	8-719-987-63	DIODE	1N4148M			R615	1-249-441-11		100K		1/4W		
	8-719-987-63		1N4148M			R619	1-249-429-11		10K		1/4W		
	8-719-987-63		1N4148M			R620	1-249-429-11		10K	5%	1/4W		
	8-719-987-63		1N4148M			R621	1-249-429-11	CARBON	10K	5%	1/4W		
D1589	8-719-987-63	DIODE	1N4148M					a i pp avi		=0/	2 / / 177		
			DOCUME TUDICAMO			1	1-249-429-11		10K		1/4W		
		< FLUUR	ESCENT INDICATO	ж >		R623 R624	1-249-429-11 1-249-429-11		10K 10K		1/4W 1/4W		
EI CO1	1_517_265_11	INDICAT	OR TUBE, FLUORE	SCENT		R625	1-249-429-11		10K		1/4W		
			OR TUBE, FLUORE			R626	1-249-429-11		10K		1/4W		
15100	- 1 01, 500 51												
		< IC >				R627	1-249-425-11		4.7K		1/4W	•	
						R628	1-249-425-11		4. 7K		1/4W		
	8-759-248-05		P47C1270AN-H227	<u>.</u>		R629	1-249-425-11	6.00	4. 7K		1/4W		in the second se
	8-749-920-83		1U52XB			R630 R631	1-249-425-11 1-249-425-11		4. 7K 4. 7K		1/4W 1/4W		*
	1 8-759-634-51 1 8-759-253-53		218AP D78042GF056-3B9)		1001	1-645-465-11	CARDON	4. 11	3/0	T/ 411	ľ	
	2 8-759-253-33 2 8-759-991-11		1091DCP			R632	1-249-425-11	CARBON	4. 7K	5%	1/4W	F	
.0.00	_ 0 .00 001 11					R633	1-249-425-11		4. 7K		1/4W		

Ref. No.	Part No.	Description					Remark	Ref. No.	Part No.	Descript	ion				Remark
						_		D1504	1 040 400 11	albron.		5 0/	2 / 477		
R634	1-249-425-11		4. 7K		1/4W	F			1-249-429-11 1-249-429-11		10K 10K		1/4W 1/4W		
R635	1-249-429-11		10K 1K	5% 5%	1/4W 1/4W	E.			1-249-429-11		10K		1/4W		
KIIUI	1-249-417-11	CARDON	IN	3/6	1/411	F		KISII	1-245-425-11	CAILDON	1011	370	1/41		
R1102	1-247-903-00	CARBON	1M	5%	1/4W			R1572	1-249-429-11	CARBON	10K	5%	1/4W		
	1-249-429-11			5%	1/4W				1-249-429-11		10K		1/4W		
	1-249-421-11		2. 2K		1/4W	F		R1581	1-247-883-00	CARBON	150	5%	1/4W		
	1-249-421-11		2. 2K	5%	1/4₩	F		R1582	1-249-429-11	CARBON	10K	5%	1/4W		
R1107	1-249-434-11	CARBON	27K	5%	1/4₩			R1583	1-247-895-00	CARBON	4701	5%	1/4W		
	1-247-881-00		120K		1/4W	_			1-247-807-31		100		1/4₩		
	1-249-427-11		6. 8K		1/4W				1-247-807-31		100		1/4W		
	1-249-425-11		4. 7K		1/4₩	r			1-247-807-31		100		1/4W 1/4W		
	1-249-435-11		33K 5. 6K	5% 5%	1/4₩ 1/4₩			3	1-247-807-31 1-249-413-11		100 470		1/4W	F	
KIIIZ	1-249-426-11	CARDON	o. or	3/0	1/40			111333	1-249 415 11	CARDON	410	570	1/ 1/1	r	
R1113	1-249-421-11	CARBON	2. 2K	5%	1/4₩	F		R1596	1-249-413-11	CARBON	470	5%	1/4₩	F	
	1-249-412-11		390		1/4W				1-249-413-11		470	-5%	1/4W	-F	
	1-249-417-11		1K	5%	1/4W	F		R1598	1-249-393-11	CARBON	10	5%	1/4W	F	
R1152	1-247-903-00	CARBON	1M	5%	1/4W										
R1153	1-249-429-11	CARBON	10K	5%	1/4W					< VARIAB	LE RESIS	STOR >			
D1154	1 0/0 /01 11	CARRON	0 017	F0/	1/4W	E.		DV1101	1 002 051 11	DEC VAR	CADDON	1 100V/	100V (C	TIDDA	LIMP)
	1-249-421-11		2. 2K 2. 2K		1/4W				1-223-251-11 1-223-251-11						
	1-249-421-11 1-249-434-11		2. ZK 27K	5%	1/4W	r			1-223-251-11					DO L	DVDL)
	1-249-434-11		120K		1/4W			KVIIOS	1-220 201-11	NEO, YAIN	, Childe		BS FREQ	UENC	Y (H ₂))
	1-249-427-11		6. 8K		1/4W	F		RV1184	1-223-569-11	RES. VAR	. CARBON		-		1 (112))
KIIO	1 210 121 11	O.M.DOI.		0.0	-,	•				, , , , , , ,	, ,		(======================================	-/	
R1160	1-249-425-11	CARBON	4.7K		1/4W	F				< SWITCH	()				
	1-249-435-11			5%	1/4W							4.5			
	1-249-426-11		5. 6K		1/4W	_			1-554-303-21						
	1-249-421-11		2. 2K		1/4W				1-554-303-21						
R1164	1-249-412-11	CARBON	390	5%	1/4W	F			1-554-303-21						
D1101	1 940 491 11	CADDON	1 C V	EQ.	1/4W			S604 S605	1-554-303-21						
	1-249-431-11 1-249-384-11		15K 1.8	5% 5%	1/6\	E		2002	1-554-303-21	Switch,	INCITED	(3)			
	1-249-384-11		1. 8	5%	1/6W			S606	1-554-303-21	SWITCH	TACTILE	(6)			
	1-249-419-11		1. 5K		1/4W				1-554-303-21						
	1-249-393-11		10	5%	1/4W				1-554-303-21						
				-					1-554-303-21						
R1521	1-249-429-11	CARBON	10K	5%	1/4W			S610	1-554-303-21	SWITCH,	TACTILE	(0)			
	1-249-429-11		10K	5%	1/4₩										
	1-249-425-11		4. 7K		1/4W			S611	1-554-303-21						
	1-249-417-11		1K	5%	1/4₩			S612	1-554-303-21						
R1532	1-249-423-11	CARBON	3. 3K	5%	1/4₩	F		S613	1-554-303-21)		
21500	1 040 400 11	CAPPON	1017	may.	1 / ATT			S614	1-554-303-21				V)		
	1-249-429-11		10K	5%	1/4W			S615	1-554-303-21	SWITCH,	TACTILE	(MEMOR	1)		
	1-249-433-11		22K	5%	1/4₩			0616	1-554-303-21	CWITCU	ተለሮሞ፣፣ ሮ	(ONCE)			
	1-249-433-11 1-249-429-11		22K 10K	5% 5%	1/4W 1/4W				1-554-303-21				\		
	1-249-425-11		4. 7K		1/4W	F		S618	1-554-303-21				,		
K100Z	1 445-445-11	Onnoon	4. (II	J/0	1/37			S619	1-554-303-21)		
R1554	1-249-415-11	CARBON	680	5%	1/4W	F		S620	1-554-303-21						
	1-249-414-11		560	5%	1/4W					,					
	1-249-415-11		680	5%	1/4W			S621	1-554-303-21	SWITCH,	TACTILE	(TIMER)		
	1-249-415-11		680	5%	1/4W			S622	1-554-303-21	SWITCH,	TACTILE	(STERE	O/MONO)		
R1558	1-249-415-11	CARBON	680	5%	1/4₩	F		S623	1-554-303-21						
								S624	1-554-303-21						
	1-249-415-11		680		1/4₩	F		S625	1-554-303-21	SWITCH,	TACTILE	(DISPL	AY)		
R1563	1-249-429-11	CARBON	10K	5%	1/4W			1							

PANEL (A) PANEL (B)

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Descript	tion			Rema	rk
	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE	(PHONO)		S906 S907			SLIDE (DOLBY SLIDE (DIRECT)		
		SWITCH, TACTILE		, DOWN)								
		SWITCH, TACTILE SWITCH, TACTILE			******	******	******	**********	******	****	****	**
31334	1-554-505-21	Switch, Tactice	(CD)		*	1-650-781-11	PANEL (I	B) BOARD				
S1555	1-554-303-21	SWITCH, TACTILE	(TAPE)					*****				
S1556	1-554-303-21	SWITCH, TACTILE	(VIDEO)									
		SWITCH, TACTILE					< CONNEC	CTOR >				
		SWITCH, TACTILE		, LEFT)	+ CNOE2	1 560 056 11	COCVET	CONNECTOR 12D				
51559	1-554-303-21	SWITCH, TACTILE	(F. FILE)		* CN952	1-300-030-11	SUCKEI,	CONNECTOR 13P				
S1560	1-554-303-21	SWITCH, TACTILE	(HALL 1)				< DIODE	>				
		SWITCH, TACTILE										
		SWITCH, TACTILE			D991	8-719-046-46	DIODE	SEL5221S-TH8C	(REC •)		
		SWITCH, TACTILE			D992			SEL5821A-TH8C				
S1565	1-554-303-21	SWITCH, TACTILE	(DISPLAY)					SEL5421E-TH8C	. ,			
 			/					SEL5421E-TH8C				
S1566	1-554-303-21	SWITCH, TACTILE	(CURSOR CONTROL	, UP)	D996	8-719-046-46	DIODE	SEL5221S-TH8C	(CD SYN	CHRO)	
		SWITCH, TACTILE SWITCH, TACTILE			D007	9-710-046-46	DIODE	SEL5221S-TH8C	(NODMAT	`		
		SWITCH, TACTILE			D998			SEL5221S-TH8C		,		
		SWITCH, TACTILE			5000	0 110 010 10	DIODE	Obbobbio inoc	(III dii)			
01010		J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					< RESIST	ror >				
		< VIBRATOR >										
						1-247-811-31		150		/4W		
		VIBRATOR, CRYST.			R991	1-249-409-11		220		/4W	F	
X1501	1-577-101-11	VIBRATOR, CERAM	IC (4. 19MHz)		1	1-249-411-11		330		/4W	n	
		******		*****	R993 R994	1-249-413-11 1-249-411-11		470 330		/4₩ /4₩	1	
******	******	*******	*******	*****	К994	1-249-411-11	CARDON	330	376 1,	/ 4 W		
*	1-650-780-11	PANEL (A) BOARD			R995	1-249-413-11	CARBON	470	5% 1.	/4W	F	
	- 000 100 11	*********				1-249-415-11		680		/4W		
					R997	1-249-417-11	CARBON	1K	5% 1,	/4W	F	
		< CONNECTOR >			R998	1-249-420-11		1. 8K		/4W		
		CONTRA CONTRACT	an an		R999	1-249-424-11	CARBON	3. 9K	5% 1,	/4₩	F	
* CN951	1-568-828-11	SOCKET, CONNECT	OR 9P				CWITCH	1.				
		< DIODE >					< SWITCH	1 /				
		V DIODE /			S951	1-554-303-21	SWITCH.	TACTILE (
D982	8-719-046-42	DIODE SEL5421	E-TH8C (▷)					TACTILE (PAUS	E II)			
D983		DIODE SEL5421			S953	1-554-303-21						
					S954	1-554-303-21	SWITCH,	TACTILE (< □)				
		< RESISTOR >			S955	1-554-303-21	SWITCH,	TACTILE (REC	MUTE 🔾)			
D001	1 047 011 01	CADDON	150 50 1/4	ttf	COEC	1 554 202 01	CWITCH	TACTILE (AMC				
R981	1-247-811-31		150 5% 1/4		S956			TACTILE (AMS	-			
R982 R983	1-249-409-11 1-249-415-11			W F	S957 S958			TACTILE (AMS				
R984	1-249-417-11			W F	S959			TACTILE (HIGH				
R985	1-249-426-11		5. 6K 5% 1/4		S960			TACTILE (NORM				
			., .						,			
R986	1-249-430-11	CARBON	12K 5% 1/4	W	S961	1-554-303-21	SWITCH,	TACTILE (CD S	YNCHRO)			
		CHITCH							****			b. de
		< SWITCH >			******	*********	******	*********	******	***	****	**
S901	1-554-303-21	SWITCH, TACTILE	()			mais a					- H	
S902		SWITCH, TACTILE										
		SWITCH, TACTILE										
		SWITCH, TACTILE										
S905	1-554-303-21	SWITCH, TACTILE	(AMS ►►)									

POLAR

							D 6 M	D . N						
Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description					Remark
*	A-4360-815-A	POLAR BOARD			5)				< COIT >					
		*****		•			L1701	1-409-497-11	COIL (FILTER	?)				
		< CAPACITOR	>						< TRANSISTOR) <u> </u>				
C1701	1-162-294-31	CERAMIC	0. 001uF	10%	50V				/ TRANSISIO					
	1-104-294-11			5%	50V		Q1701	8-729-900-61	TRANSISTOR	DTA114	ES			
	1-124-902-00		0. 47uF	20%	50V		Q1702	8-729-900-80	TRANSISTOR	DTC114	ES			
C1704	1-124-902-00	ELECT	0. 47uF	20%	50V			8-729-900-80		DTC114	ES			
C1705	1-164-098-11	CERAMIC	0. 047uF		12V			8-729-900-80		DTC114				
01700	1 104 000 11	DIFOT	1P	200/	FON		Q1705	8-729-900-61	TRANSISTOR	DTA114	ES			
	1-124-903-11 1-162-288-31		luF 330PF	20% 10%	50V 50V	1			< RESISTOR >					
	1-124-903-11		luF	20%	50V				(RESISTOR)					
	1-124-903-11		luF	20%	50V		R1701	1-249-432-11	CARBON	18K	5%	1/4W		
	1-130-471-00		0. 001uF	5%	50V			1-249-435-11		33K	5%	1/4W		
01.10	1 100 111 00							1-249-427-11		6.8K		1/4W	F	
C1711	1-130-471-00	MYLAR	0.001uF	5%	50V			1-247-858-11		13K	5%	1/4W		
	1-130-736-11		0.01uF	5%	50V		R1705	1-249-417-11	CARBON	1K	5%	1/4W	F	
	1-130-736-11		0. 01uF	5%	50V									
	1-124-903-11		1uF	20%	50V		R1706	1-249-417-11	CARBON	1K	5%	1/4W	F	
	1-124-903-11		1uF	20%	50V			1-249-441-11		100K	5%	1/4W		
02.12							R1708	1-249-440-11	CARBON	82K	5%	1/4W		
C1716	1-124-903-11	ELECT	1uF	20%	50V	n . 0	R1709	1-249-439-11	CARBON	68K	5%	1/4W		
	1-162-291-31		560PF	10%	507		R1710	1-249-439-11	CARBON	68K	5%	1/4W		
	1-162-291-31		560PF	10%	50V									
	1-124-477-11		47uF	20%	25V		R1711	1-249-439-11	CARBON	68K	5%	1/4W		
	1-161-379-00		0. 01uF	20%	25V		R1712	1-247-878-00	CARBON	91K	5%	1/4W		
							R1713	1-247-878-00	CARBON	91K	5%	1/4W		
C1721	1-161-379-00	CERAMIC	0.01uF	20%	25V		R1714	1-249-441-11	CARBON	100K	5%	1/4W		
	1-161-379-00		0.01uF	20%	25V		R1715	1-249-441-11	CARBON	100K	5%	1/4W		
	1-161-379-00		0.01uF	20%	25V									
C1724	1-161-379-00	CERAMIC	0.01uF	20%	25V -		R1716	1-249-441-11	CARBON	100K	5%	1/4W		
C1725	1-124-477-11	ELECT	47uF	20%	25V		R1717	1-249-441-11	CARBON	100K	5%	1/4W		
							R1718	1-249-429-11	CARBON	10K	5%	1/4W		
C1726	1-124-903-11	ELECT	luF	20%	50V		R1719	1-249-429-11	CARBON	10K	5%	1/4W		
	1-124-903-11		luF	20%	50V		R1720	1-249-429-11	CARBON	10K	5%	1/4W		
	1-124-034-51		33uF	20%	16V									
C1729	1-124-907-11	ELECT	10uF	20%	50V			1-249-434-11		27K	5%	1/4W		
							R1722	1-249-441-11	CARBON	100K	5%	1/4W		
		< CONNECTOR	>						/ WIDTING	DO LOMOD				
# CN120	1 1 560 000 11	COCKET COM	NECTOD 12	D					< VARIABLE F	ŒSISTOR	>			
* CNI/U	1 1-568-832-11	SUCKEI, CUN	NECTOR 13	r			BW1701	1-238-601-11	RES ADI CA	PRON 22	K			
		< DIODE >				.0		1-238-599-11						
D1701	8-719-987-63	DIODE 1NA	148M						< SWITCH >					
	8-719-987-63		148M			1			0					
	8-719-987-63		148M				S1701	1-571-303-11	SWITCH, SLII	E (POLA	R-PIL	OT TON	E)	
	8-719-987-63		148M				22101	2 0.2 000 11		_ (. 56/1		VIII	/	
	8-719-987-63		148M						< PIN CONNEC	CTOR >				
							, mp. ac.	1 500 001 00	DIN COMMO	200 000				
		< IC >						1-560-061-00						
10150		TO TROPE					* 171702	1-560-061-00	FIN, CONNECT	UK 3P				
	1 8-759-063-04		and the second of	v 1, 1, 2				٠ د . د . د . د . د . د . د . د . د .			***	. د د د د د د د د د د	اد داد څه څه	*****
	2 8-759-634-51						******	******	*****	******	ተ ቶቶች	****	ተ ችቾች	*****
101703	8 8-759-140-53	IC MC1405	ODUP											

POWER POWER AMP

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
*	A-4369-159-A	POWER BOARD							< RESISTOR >				
							R1601	1-249-417-11	CARBON	1K	5%	1/4W	F
*	A-4369-172-A	POWER BOARD,	, COMPLET	TE (AEP,	IT, G)			1-249-429-11				1/4W	•
		******	*****	******	*****		⚠ R1603	1-212-849-00	FUSIBLE			1/4W	F
								1-249-425-11		4.7K	5%	1/4W	F
*	A-4371-009-A	POWER BOARD,					R1612	1-249-421-11	CARBON	2. 2K	5%	1/4W	F
								1-212-934-00				1/2W	
	7-685-646-79	SCREW +BVTP	3X8	TYPE2 N	V-S			1-249-423-11		3. 3K		1/4W	F
		/ CADACITOD						1-249-433-11				1/4W	_
		< CAPACITOR	2.				K1623	1-249-400-11	CARBON	39	5%	1/4W	
∕\C1	1-161-744-51	CEDAMIC	0. 01uF		400V		D1624	1-249-400-11	CADDON	39	5%		P, IT, G)
	1-124-907-11		10uF	20%	50V		K1024	1-249-400-11	CARDON	39	o∕n	1/4W	r P, IT, G)
	1-161-379-00		0. 01uF	20%	25V (U	K)						(AEI	, 11, 0)
	1-162-306-11		0. 01uF		16V	11.)			< RELAY >				
			0,0101		P, IT, G, E	E. CIS)			S_RDDAT_ E				
C1603	1-124-907-11	ELECT	10uF		50V	-,,	RY1	1-515-738-11	RELAY, POWER				
	1-161-379-00 1-162-306-11		0. 01uF 0. 01uF	20% 20%	25V (UI	K)			< TRANSFORMER :	• · · · · · · · · · · · · · · · · · · ·			
C1004	1 102 300 11	CERTAIL	o. orur		P, IT, G, E	E CIS)	∧ T2	1_423_020_11	TRANSFORMER, PO	AMED (CII	D) (AED	ΙΤ C)	
C1605	1-124-463-00	ELECT	0. 1uF	20%	50V	L, CIO)	<u> </u>		TRANSFORMER, PO				
	1-124-557-11		1000uF	20%	25V		2:12	1 425 550 11	TRANSFORMER, TO	JHER (SU	D) (UA, :	ee, cic))
	1-136-165-00		0. 1uF	5%	50V (E	F (15)	*****	******	*******			*****	
	1-164-159-11		0. 1uF	0/0	50V	L, C10)	******	***********	*******	r******	****	****	****
CIOUT	1 104 100 11	CEMINITO	0. 101		(AEP, UK,	IT, G)	*	A-4369-160-A	POWER AMP BOARD	•		•	
C1611	1-124-910-11	ELECT	47uF	20%	50V								
	1-124-907-11		10uF	20%	50V		*	A-4369-173-A	POWER AMP BOARI	COMPL	ETE (A)	EP. EE.	CIS)
C1613	1-124-122-11	ELECT	100uF	20%	50V			1	********				
		< CONNECTOR	>				*	A-4369-305-A	POWER AMP BOARD				
A CM1	1 504 001 00	DIN CONNECT	תם מחי						******	*****	*****	****	
* CN1	1-564-321-00	PIN, CONNECT	IUR ZP						/ CADACTTOD >				
		< DIODE >							< CAPACITOR >				
B * 00 *	A #10 00#	D. C.						1-126-163-11		4. 7uF	209		0V
	8-719-987-63		148M					1-164-075-11		150PF	109		0V
	8-719-200-82							1-164-077-11		220PF	109		OV
	8-719-200-82		_					1-124-126-00		47uF	209		00
	8-719-200-82						C1205	1-124-910-11	ELECT	47uF	209	8 5	0V
D1605	8-719-200-82	DIODE 11ES	52				01000	1 104 100 11	DI DOM				
D1000	0 710 007 00	DIODE 12:41	14014					1-124-122-11		100uF	209		07
	8-719-987-63		148M					1-124-916-11		22uF	209		3V
	8-719-014-66		-5. 6B					1-137-375-11		0. 068uI		-	0 V
	8-719-002-60							1-137-375-11		0. 068uI			0V
פוסות	8-719-200-82	DIODE 11ES	54				C1220	1-126-176-11	ELECT	220uF	209	6 1	OV
		< IC >						1-126-163-11		4. 7uF	209	5	0V
								1-164-075-11		150PF	109	6 5	0V
IC1601	8-759-820-13	IC L78MR06	3				C1253	1-164-077-11	CERAMIC	220PF	109	6 5	0V
							C1254	1-124-126-00	ELECT	47uF	209	6 1	OV
		< TRANSISTOR	? >			55. J	C1255	1-124-910-11	ELECT	47uF	209	6 5	0 V
	8-729-141-83		2SB1094			1		1-124-122-11		100uF	209		0V
Q1621	8-729-119-78	TRANSISTOR	2SC403S	P-51				1-137-375-11		0.068uF			0 V
							C1261	1-137-375-11	FILM	0.068uF	5%	5	0 V

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

POWER AMP

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1	`\'	
	·v	

Ref. No. I	art No.	Description			Remark	Ref. No.	Part No.	Description	Remark
		< CONNECTOR >				<u>^</u> R1259	1-212-881-11 1-217-151-00	FUSIBLE 100 5% RES, METAL PLATE 0.22	1/4W F 2W
. 011 000	1 564 519_11	PLUG, CONNECTOR 3P					1-249-417-11		1/4W F
* CN1203	1-564-516-11	PIN, CONNECTOR (PCB) (V TYPE)	8P			1-249-431-11		1/4W
. 011204	1 102 002 11	,						CARRON 100V FW	1 / AW
		< IC >					1-249-441-11	CARBON 100K 5%	
							1-249-397-11		
IC1201	8-749-900-24	IC STK-4162MK2 (AEF		, CIS)		R1269	1-249-397-11	CARBON 22 5%	1/4W F
IC1201	8-749-920-09	IC STK-4152MK2K (UK	.)			مال مال مال مال مال مال مال مال مال	****	*********	*****
		. DIODD				******	*****	\$ * * * * * * * * * * * * * * * * * * *	, , , , , , , , , , , , , , , , , , ,
		< DIODE >				*	1-651-167-11	VR BOARD	
51001	0 710 007 69	DIODE 1N4148M				T	1 001 101 11	*****	
D1201	8-719-987-63 8-719-987-63	DIODE 1N4148M							
	8-719-987-63							< CAPACITOR >	•
D1251	0-119-901-03	DIODE INTITOM							
		< TRANSISTOR >				C1185	1-164-159-11		50V
							1-161-494-00		25V
01201	8-729-140-84	TRANSISTOR 2SC1841-	-PAFAEA			C1508	1-124-443-00	ELECT 100uF	20% 10V
01251	8-729-140-84	TRANSISTOR 2SC1841-	-PAFAEA						
42202								< CONNECTOR >	
		< RESISTOR >						The commence of	
						* CN1502	2 1-568-934-11	PIN, CONNECTOR 7P	
R1201	1-249-417-11	CARBON 1K		/4W	F			4.70	
	1-249-438-11			./4W				< IC >	
	1-249-414-11			./4₩	F	10150		IC I B1620	
	1-249-438-11			/4W		101504	8-759-820-62	IC FB1039	
R1205	1-249-425-11	CARBON 4.7K	5% 1	/4W	F			< VARIABLE RESISTOR >	
		0 + DD011	F0/ 1	/ / 100	10			VARIABLE RESISTOR >	
	1-249-425-11			L/4₩ L/4₩		DV1185	5 1-241-350-11	RES, VAR, CARBON 100K/10	OK (VOLUME)
	1-249-425-11			L/4W		VALLOS) 1-241 330 11	nes, vint, combon 1000/10	OIL (VOLUME)
R1208	1-249-425-11	CARBON 4.7K		L/4W		******	********	*********	*****
<u>/f\</u> R12U9 ♠ B1210	1-212-881-11	RES, METAL PLATE 0.2		2W	•				
<u>/!\</u> K1210	1-217 131 00	, ICAS, INDIVIDURE I DAILE OF E		• ••				MISCELLANEOUS	
R1211	1-249-417-11	CARBON 1K	5%	1/4W	F	1		*******	
R1212	1-249-431-11	CARBON 15K	5%	1/4W					
	1-249-441-11		5%	1/4W		6		WIRE (FLAT TYPE) (26 COF	
	1-249-421-11		5%	1/4₩	F	* 7		WIRE (FLAT TYPE) (23 COF	
	1-249-421-11		5%	1/4W	F	8	1-690-824-11	WIRE (FLAT TYPE) (25 COF	(E)
						9		WIRE, FLAT TYPE (15 CORE	
R1216	1-249-421-11			1/4W		9	1-590-459-11	WIRE, FLAT TYPE (11 CORE) (UK, EE, CIS)
R1217	1-249-421-11	1 CARBON 2. 2K		1/4W		A 10	1 505 053 13	ו מאסף ביים או אים או מאסף ביים הו	: C16)
	1-249-397-11			1/4W		<u></u> Λ16		CORD, POWER (AEP, G, IT, EF CORD, POWER (UK)	L, CIS)
	1-249-397-1			1/4W	r	117	1-690-570-2	WIRE (FLAT TYPE) (13 COF	RE) (CIS)
R1227	1-249-429-13	1 CARBON 10K	5%	1/4W		19 81	1-090-390-3	WIRE (FLAT TYPE) (9 CORE	(010)
		1 040001 1001	- F0/	1 / 457		83		WIRE (FLAT TYPE) (13 CON	
	1-249-441-1			1/4W 1/4W		03	1 131 210 1.	T WIND (I BALL TITE) (10 co.	
	1-249-429-1			1/6\	E	117	1-590-485-1	WIRE, FLAT TYPE (7 CORE)	
	1-249-383-1			1/4W		* 261	1-452-538-1		
	1-249-417-1			1/4W	1	1 306		OPTICAL PICK-UP BLOCK (F	(SS-240A)
K125Z	1-249-438-1	I CHILDON 30K	070	a/ 311		307		1 WIRE, FLAT TYPE (12 COR	
D19E9	1-249-414-1	1 CARBON 560	5%	1/4W	F	 ♠F101		0 FUSE (T2.5A)	
	1-249-438-1			1/4₩	_				
	1-249-425-1			1/4W	F	▲F102		0 FUSE (T2.5A)	
	1-249-425-1			1/4W		♠ F103	1-532-299-0	0 FUSE (T5.0A)	
	1-249-425-1			1/4W		<u></u> ₹F104	1-532-299-0	0 FUSE (T5. 0A)	
								A BASE ASSY, HEAD	
R1258	1-249-425-1	1 CARBON 4.7F	5%	1/4₩	F	HRPE1	01A-2003-930-	A BASE ASSY, HEAD	
								The companyon	identified by mark

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description
T/014	0.740.024.10	PHOTO REFECTOR NJ5165-B (DECK A)				******
ICOLA	0-749-924-10	PHOTO REFECTOR NJ5165-B (DECK B)				HARDWARE LIST
10818	8-749-924-10	MOTOR ASSY (REEL) (DECK A)		}		*******
MIUIA	X-3363-501-1	MOTOR ASSI (REEL) (DECK A)				******
M101B	X-3363-501-1	MOTOR ASSY (REEL) (DECK B)		ш1	7 005 046 70	CODE DUTO 2VO TVDEO N C
M102A	X-3365-377-1	MOTOR ASSY (CAPSTAN) (DECK A)		#1		SCREW +BVTP 3X8 TYPE2 N-S
				#2		SCREW +BVTT 3X8 (S)
M102B		MOTOR ASSY (CAPSTAN) (DECK B)		#3		SCREW +BVTT 4X6 (S)
M151		MOTOR (L) ASSY (LOADING)		#4		SCREW +BVTP 3X16 TYPE2 IT-3
M301	X-4917-523-4	MOTOR ASSY (SPINDLE)		#5	7-621-849-00	SCREW, TAPPING
M302	X-4917-504-1	MOTOR ASSY (SLED)				
S101	1-572-085-11	SWITCH, LEAF (LIMIT)		#6	7-627-556-08	SCREW +P 2.6X2.8
				#7	7-621-775-00	SCREW +B 2.6X3
 ↑11	1-423-927-11	TRANSFORMER, POWER (AEP, G, IT, EE,	CIS)	#8	7-621-775-10	SCREW +B 2.6X4
<u>/</u> ↑T1		TRANSFORMER, POWER (UK)		#9	7-621-255-15	SCREW +P 2X3
<u>∧</u> T2	1-423-929-11	TRANSFORMER, POWER (SUB) (AEP, G, I'	T)			
<u>∧</u> T2		TRANSFORMER, POWER (SUB) (UK, EE, C				
<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	1 450 000 11	Thin bi on bit (bob) (bit) 2-, c	/			
*****	******	***********	******			
	ACCESSORIE	S & PACKING MATERIALS				

	4.					
	1-467-547-11	COMMANDER, STANDARD (RM-S421)				
		ANTENNA, LOOP (AEP, IT, EE, CIS)				
		ANTENNA (AEP, IT, EE, CIS)				
		COVER, BATTERY (For RM-S421)				
		MANUAL, INSTRUCTION (ENGLISH) (UK)			
	3-130-102-11	MANUAL, INSTRUCTION (ENGLISH) (OR	,	Į		
	2 750 160 21	MANUAL INCTDUCTION (CEDMAN) (AED	1			
		MANUAL, INSTRUCTION (GERMAN) (AEP	,			
	3-758-162-41	MANUAL, INSTRUCTION	CE) (AED)	1		
		(ENGLISH, FRENCH, SPANISH, PORTUGUE	SE) (AEP)			
	3-758-162-51	MANUAL, INSTRUCTION	(4772 ***)	1		
		(GERMAN, DUTCH, SWEDISH, ITALIAN)	(AEP, IT)			
	3-758-162-61	MANUAL, INSTRUCTION				
		(DANISH, FINNI	SH) (AEP)	l		
	3-758-162-71	MANUAL, INSTRUCTION		ļ		
		(ENGLISH, RUSSIAN, POLISH)	(EE, CIS)			
	9 750 100 01	MANUAL INCTDUCTION		1		
	3-120-102-81	MANUAL, INSTRUCTION	TAM) (DD)			
		(CZECHOSLOVAK, HUNGAR	IAN) (EE)			
*	4-963-204-11	· ·				
*		I INDIVIDUAL CARTON (AEP, IT)				
*	4-963-782-01	I INDIVIDUAL CARTON (EE, CIS)				
*****	******	· · · · · · · · · · · · · · · · · · ·	******	1		

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

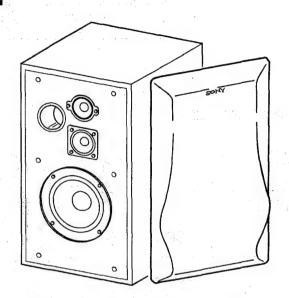
Replace only with part number specified.

Remark

SS-A490

SERVICE MANUAL

AEP Model



SPECIFICATIONS

System:

Speaker units:

3-way-speaker system Woofer: 16 cm, cone type

Midrange: 6,5 cm, cone type Tweeter: 5 cm, cone type

Bass reflex

Enclosure type:

Rated impedance:

6Ω

Power handling capacity:

Maximum input power

100 W

Sensitivity:

88 dB (1 W, 1 m) 50 - 20.000 Hz

Effective frequency range: Dimensions:

Weight:

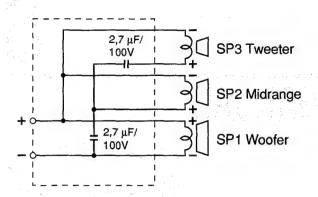
Approx. 260 x 475 x 220 mm (w/h/d) Approx. 5,8 kg per speaker, net Approx. 12,5 kg in shipping carton

Design and specifications subject to change without notice.





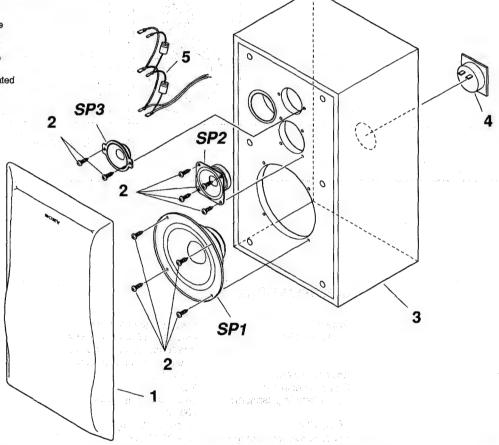
1. SCHEMATIC DIAGRAM



2. EXPLODED VIEW AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



Ref. No.	Part No.	<u>Description</u> <u>Remark</u>
	XZ 4044 405 1	CONT. F. FD. A.G. A.G.Y.
1	X-4944-495-1	GRILLE FRAME ASSY
2	4-960-363-01	TAPPING SCREW +B 3,5 X 16
3	X-4944-494-1	SPEAKER CABINET ASSY
4	1-537-529-11	TERMINAL BOARD
5	1-751-750-11	INTERCONNECTING CORD
		WITH CAPACITORS
an.	1 504 255 11	ODE ARED (16 COME)
SPI	1-504-377-11	SPEAKER (16 cm CONE)
SP2	1-504-375-11	SPEAKER (6,5 cm CONE)
SP3	1-504-378-11	SPEAKER (5 cm CONE)

9-959-449-11

Ref. No.	Part No.	Description	Remark
	<accessorie< th=""><th>ES & PACKING MATERIALS></th><th></th></accessorie<>	ES & PACKING MATERIALS>	
*	4-964-264-01	CARTON	
*	4-964-265-01	CUSHION (T)	
*	4-956-768-01	CUSHION	
*	4-956-769-01	POLYETHYLENE BAG	
	3-758-017-01	INSTRUCTION MANUAL	
	1-751-495-11	SPEAKER CORD	

Sony Corporation Audio Group English 94C7550-1 Printed in Germany © 1994.3

PS-LX56/LX56P

SERVICE MANUAL

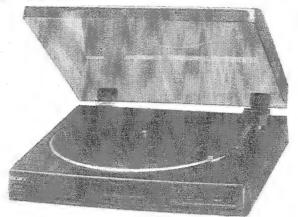


PHOTO: PS-LX56

US Model Canadian Model PX Model Tourist Model PS-LX56 AFP Model E Model Australian Model PS-LX56/LX56P UK Model

PS-LX56P

SPECIFICATIONS

Turntable

Platter Motor Drive system Speed Wow and flutter Signal-to-noise ratio Automatic system

PS-LX56/LX56P are the turntable section in LBT-

A190/A195/A290/A290K/

A295/A390/A390K/A395/ A490/A490K/A495/D150/

D250/D550/G1000/G2000.

Tonearm

Type Pivot-to-stylus length Overall arm length

Cartridge

Туре Frequency response Stylus

Dimensions

Weight Power requirement

Power consumption Accessory supplied Optional accessories (PS-LX56)

30cm (12 in.) DC servo motor Belt drive 33 1/3 rpm/45 rpm switchable 0.2% (WRMS) 60 dB (DIN-B) Return, reject

Dynamically blanced 203 mm (8 in.) 235 mm (9 1/4 in.)

Moving magnet type 20 Hz-20kHz CN-234

355 × 94 × 345 mm(w/h/d) (14 × 33/4 × 135/8 inches) Approx. 2.5 kg (5 lb 8 oz)

US and Canadian model: 120V AC, 60Hz European model: 220-230V AC, 50/60Hz

Australian model: 240V AC, 50Hz Model for other countries: 110-120V/220-240V

adjustable with the voltage selector AC. 50/60Hz

45-rom adaptor (1) Replacement stylus CN-234 Stat spray XP-C10 Cleaner XP-C1, XP-C2

Turntable

Platter Tone arm type Cartridge type Stylus Mass Dimensions

(PS-LX56P)

Dynamically balanced Moving magnet type Sony CN-234 (0.6 mil diamond) Approx. 2.3 kg (5 lb 1 oz) Approx. 355 x 95 x 345 mm $(14 \times 3^3 /_4 \times 13^5 /_8 \text{ inches})$ (w/h/d, including projections)

Design and specifications subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

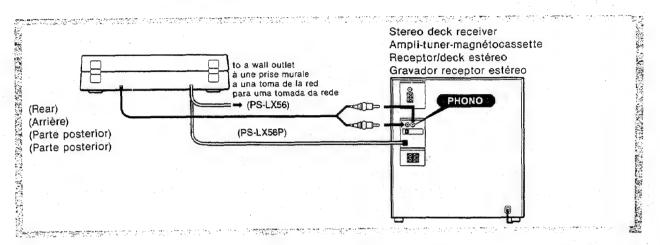


STEREO TURNTABLE SYSTEM SONY

Connections

Note

Connect the red plug to the right-channel jack (R), and the white plug to the left-channel jack (L).



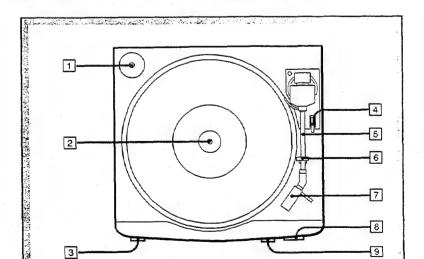
Notes on installation

- · Place the turntable on a level surface.
- Avoid placing the unit near electrical appliances (such as a television, hair dryer, or fluorescent lamp) which may cause hum or noise.
- Place the turntable where it will not be subject to any vibration, such as from speakers, slamming of doors, etc.
- Keep the unit away from direct sunlight, extremes of temperature, and excessive dust and moisture.

To remove the dust cover

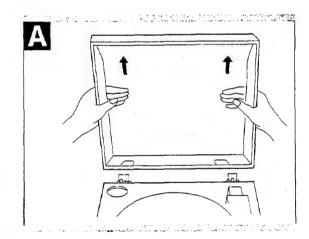
Open the cover fully and pull it up.

Location of Controls



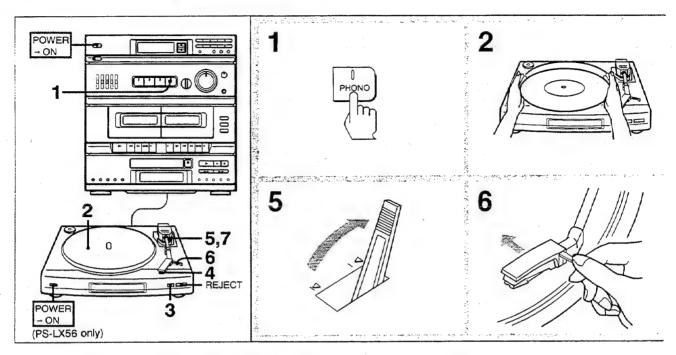
Nota

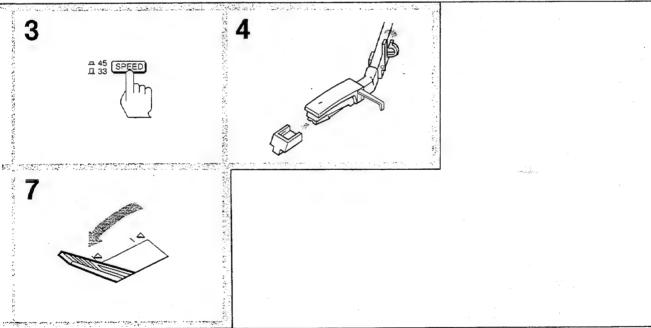
Conecte la clavija roja a la toma del canal derecho (R), y la blanca a la del canal izquierdo (L).



- 1 45-rpm adaptor
- 2 Centre spindle
- 3 POWER switch (PS-LX56)
- 4 Cueing lever
- 5 Tonearm
- 6 Armrest
- 7 Cartridge
- 8 REJECT button
- 9 Speed selector

Playing Records





When the record is played to the end, the tonearm returns to the armrest and the turntable stops.

To stop during play, press REJECT.

To play a different part of the record

Lift the tonearm by setting the cueing level to ▼,
move the tonearm by hand to the desired point, then
set the cueing lever to ▼.

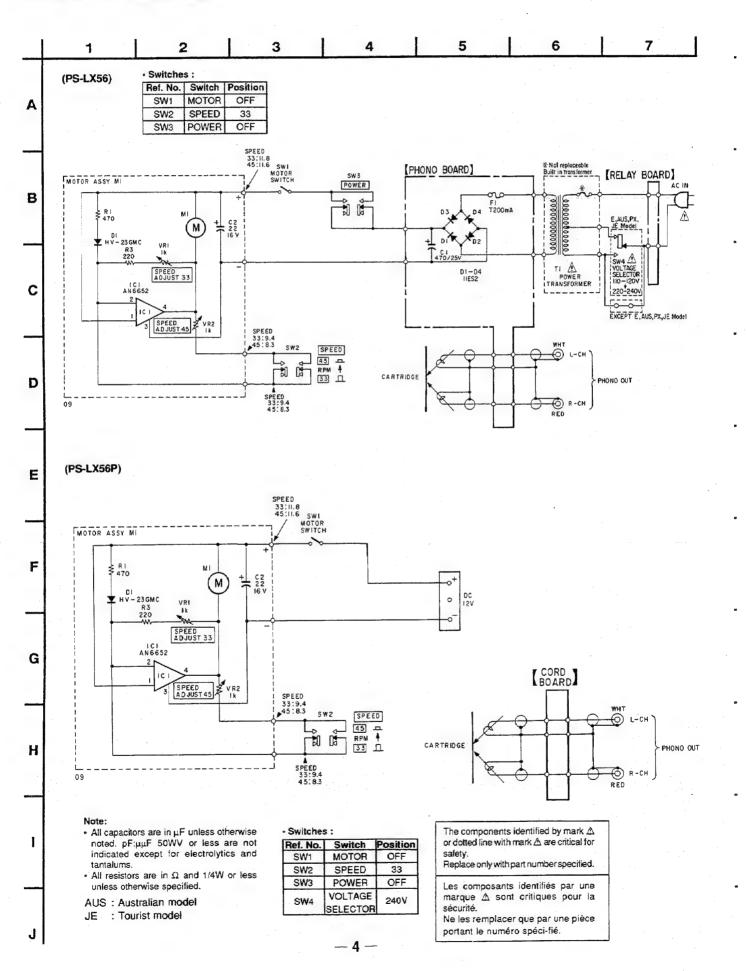
To play a 17-cm record Use the supplied adaptor

If the tonearm moves outward when you move it colse to the centre

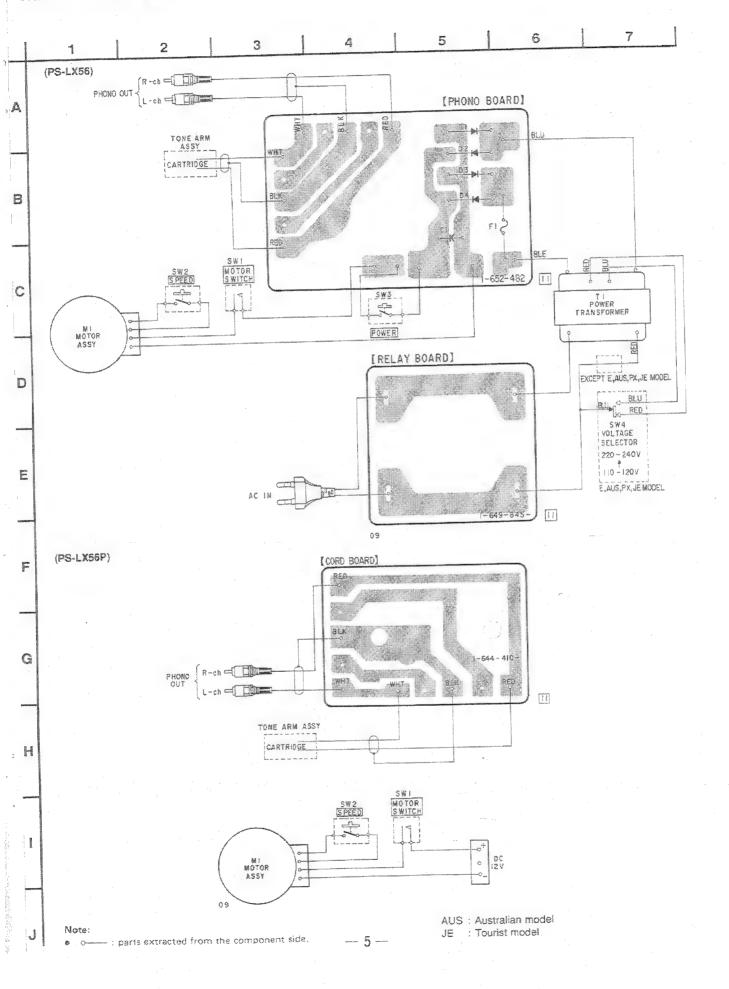
Do not resist this movement, as it may damage the automatic return mechanism.

If the tonearm does not return to its armrest Press REJECT.

SCHEMATIC DIAGRAMS



WIRING DIAGRAMS



EXPLODED VIEW

NOTE:

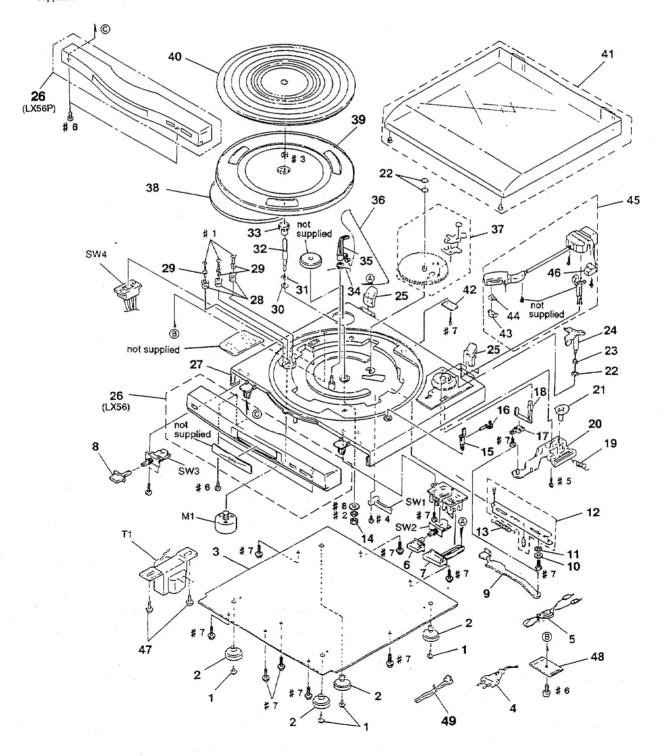
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- AUS : Australian model
 CND : Canadian model
 EE : East European model
- IT : Italian model
 MX : Mexican model
 EA : Saudi Arabia model
 SP : Singapore model
 MY : Malaysia model
- JE : Tourist

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque <u>A</u> sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.



Ref	. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Remark
1 2 * 3 <u>^</u> 4 <u>^</u> 4		4-961-804-01 1-575-651-61	PLASTIC STAND BUTTON BOARD	EA, EE, IT, MX, MY, CIS, SP) US)	M1 SW1 SW2 SW3 ASW4	1-571-089-11 1-692-211-11	SWITCH (LEAF) SWITCH, PUSH SWITCH, PUSH) (SPEED) (1 KEY) (POWER) (1 KEY)(LX56 CTOR (LX-56: AUS,E,MX) , MY, SP)
<u>↑4</u> ↑4 5 6 7		1-590-074-11 1-690-608-11 1-555-116-11 4-964-177-01 4-964-178-01	KNOB SPEED		<u>↑</u> T1 <u>↑</u> T1 <u>↑</u> T1	1-450-987-21 1-450-987-31	TRANSFORMER, TRANSFORMER,	POWER (LX56: AEP, EE, POWER (LX56: AUS, E, PX, EA, POWER (LX56: MY) POWER (LX56: U, CA)	
8 9 1 1	0	4-947-487-01 4-890-173-00 3-659-350-00	WASHER						
1; 1; 1; 1; 1;	4 5 6		NUT						
1: 2: 2: 2:	9 0 1	4-963-537-01	LINK RETURN ADJUST CAM						
2: 2: 2: 2: 2:	4 5 6	A-4660-498-A A-4660-577-A	TONE ARM ELEVATOR	(LX56: GRAY) (US) (LX56: BLACK)					
* 2° 2° 2° 3°	7 8 9	4-950-487-01	FRONT PANEL (G) ASSY MAIN CABINET (B) CUSHION MOTOR COLLAR WASHER (56)	(LX56P)					
3: 3: 3: 3:	2 3 4	3-701-445-21 4-947-498-01 4-947-497-01 4-947-496-01 4-947-495-01	STELL BALL GEAR		·				
31 31 31 41	7 8 9	A-4604-916-A 4-947-503-01	TURNTABLE PLATTER						
* 4 * 4 * 4	2 3	1-652-482-11 1-644-410-11 4-948-095-01	DUST COVER ASSY PHONO BOARD (LX56) CORD BOARD (LX56P) COVER, CARTRIDGE STYLUS (CN-234)						
4 4 4 * 4	6 7 8	4-947-464-01 4-952-961-01 1-649-845-11	ARM ASSY, TONE COUNTER WEIGHT SCREW (LX56) RELAY BOARD (LX56) CORD, DC (LX56P)						



ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- · -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms METAL: Metal-film resistor METAL OXIDE: Metal Oxide-film resistor F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · Hardware (# mark) list is given in the last of this parts list.
- SEMICONDUCTORS In each case, u: μ , for example: uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC... uPD...: μPD...
- CAPACITORS $uF: \mu F$
- · COILS $uH: \mu H$
- AUS : Australian model · CND : Canadian model • EE : East European model
- IT Italian model MX : Mexican model EA
- Saudi Arabia model SP Singapore model MY : Malaysia model
- JE : Tourist

The components identified by mark ⚠ or dotted line with mark
 ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque 🛕 sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Remark
*	1-644-410-11	CORD BOARD (LX56P) ********			ACCESSORIES *******	& PACKING MATERIA *********	LS **	
*****	******	********	*******			MANUAL INSTRUCTION		
*	1-652-482-11	PHONO BOARD (LX56) ********			4-758-045-21 4-758-045-41	French, Spanish, Pon MANUAL INSTRUCTION MANUAL INSTRUCTION	(English)(LX5	6 US)
		< CAPACITOR >			(Ge 4-758-045-51	erman, Dutch, Swedish MANUAL INSTRUCTION	, Italian) (LX56	AEP, IT)
C1	1-126-012-11	ELECT 470uF	16 V		4_759_045_61	(LX56 AU	rench, Spanish, (S, E, PX, MX, EA, M	Chinese) Y,SP,JE)
		< DIODE >			4-130-045-01	MANUAL INSTRUCTION (English, Germa	n, Polish) (LX56	EE, CIS)
D1 D2 D3 D4	8-719-200-82 8-719-200-82 8-719-200-82 8-719-200-82	DIODE 11ES2 DIODE 11ES2		* * * * * * * * * * * * * * * * * * * *	4-947-532-01 4-947-533-01 *******	SNOW BOX (L)		
		< FUSE >				*****		
<u></u> ♣F1	1-532-613-XX	FUSE TIME-LAG (T200mA)		*1	HARDW	ARE LIST *******		
******	******	*********	*******	#1	7-621-773-87	SCREW (64)	Ū.	
*		RELAY BOARD (LX56) ********		#2 #3 #4	7-623-210-22 1 7-624-110-04 1 7-685-105-01 5	6MM E RING		
*****	******	*********	*****	#5	7-685-645-79			
				#6 #7	7-685-646-79 \$ 7-685-647-79 \$		•	

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7-688-005-01 WASHER (69)

PS-LX56/LX56P

SONY. SERVICE MANUAL

US Model
US Model
Canadian Model
PX Model
Tourist Model

CORRECTION-1

Correct your service manual as shown below.

AEP Model E Model Australian Model PS-LX56/LX56P

UK Model

: indicates corrected portion.

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
8	4	-758-045-11	MANUAL INSTRUCTION (English, French, Spanish, Portuguese) (LX56 AEP, CND)	<u>3</u> -758-045-11	MANUAL INSTRUCTION (English,French,Spanish,Portuguese) (LX56 AEP, CND)
	4	-758-045-21	MANUAL INSTRUCTION (English) (LX56 US)	3-758-045-21	MANUAL INSTRUCTION (English) (LX56 US)
	4	-758-045-41	MANUAL INSTRUCTION (German, Dutch, Swedish, Italian) (LX56 AEP, IT)	3-758-045-41	MANUAL INSTRUCTION (German, Dutch, Swedish, Italian) (LX56 AEP, IT)
	4	-758-045-51	MANUAL INSTRUCTION (English, French, Spanish, Chinese) (LX56 AUS,E,PX,MX,EA,MY,SP,JE)	3-758-045-51	MANUAL INSTRUCTION (English, French, Spanish, Chinese) (LX56 AUS,E,PX,MX,EA,MY,SP,JE)
	4	-758-045-61	MANUAL INSTRUCTION (English, German, Polish) (LX56 EE, CIS)	<u>3</u> -758-045-61	MANUAL INSTRUCTION (English, German, Polish) (LX56 EE, CIS)